

Are You ReDI?

#Volunteer at ReDI School NRW



Solène Tobler

Contact: volunteernrw@redi-school.org



We use tech to connect human potential and
opportunity with dignity & humility

We are ReDI

ReDI School of Digital Integration is a non-profit tech school for locals and newcomers without access to digital education.

Integration brings shared value



Our aim is to provide our students with valuable digital skills and a strong network of tech leaders, students and alumni to help create new opportunities for all.



“We are using technology to break down barriers and connect the leaders of tomorrow.”

— Anne Kjaer Bathel, CEO ReDI School

A photograph of the Brandenburg Gate in Berlin, Germany, illuminated at sunset. The sky is a mix of orange, pink, and blue. The gate's arches are lit from below, and the central quadriga is visible on top.

ReDI Berlin
2016

A panoramic view of the Munich skyline, featuring the prominent green-roofed towers of St. Peter's Church (St. Peter's Basilica) and the spire of St. Mary's Church (St. Marien Church) against a clear blue sky. The city's dense architecture and red-tiled roofs are visible in the foreground.

ReDI Munich
2018

A photograph of the colorful, multi-story buildings along the waterfront of Copenhagen, Denmark. The buildings are painted in various bright colors like red, yellow, and blue. Several small boats are docked in the water in the foreground, and people are visible on the promenade.

**ReDI
Copenhagen**
2019

A photograph of a waterfront scene in Düsseldorf and Duisburg, North Rhine-Westphalia (NRW), Germany. It shows a mix of old industrial buildings and modern architecture along the banks of a river, with lights reflecting on the water under a twilight sky.

ReDI NRW
Düsseldorf, Duisburg
2020

The ReDI Community

11.442
hrs. tech training
since 2016

2300+

4500+

Tech Leaders & Volunteers

extraordinarily engaged
Tech-Experts, Coders,
Software-Engineers,
Data-Scientists, Designers,
HR-Experts and Leaders have
trained since 2016...

Tech Talents & Students

highly motivated refugees,
migrants and newcomers from
more than 50 countries at ReDI
School in Berlin & Munich & NRW
supported by...



ReDI School North Rhine-Westphalia

For Düsseldorf, Cologne, Essen, Aachen and more!

All volunteering happens ONLINE !!

ReDI NRW Team



Digital Career Program



Takuya Furukawa
Educational Director



Solène Tobler
Head of Community Development



Lina Mneimneh Lösse
Student Community Manager



Anita Navin
IT Infrastructure Support

Digital Career Support (for all German ReDI locations)



Isabelle Köhncke
Global Career Program Manager



Paulina Munoz
Manager Coaching & Job Integration



Miriam Abu Hamdan
Manager Mentorship Program



Astkhik Durgaryan
Manager Career Training & Workshops

Kids and Youth Program Duisburg



Leeve Sophie Denker
Program Manager



Ben Jaskulski
Course Lead



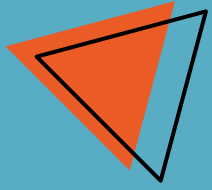
Evrin Yilmaz
Course Lead



Hazel Yilmaz
Course Lead



Pelin Öz
Course Lead



Digital Career Program

Tech Talents of Tomorrow
For students from all cities in NRW





The Volunteers

ReDI heroes: rise by lifting others

Our mission at ReDI School is supported by the local tech community, who teaches, mentors, and supports our students along the way. We are looking for a variety of volunteers who can bring their professional experience to help our students grow.



For volunteers — Everything happens online!

Teacher

As a volunteer teacher, you support learners by teaching them topics you master:

- Web Design
- UX
- Python
- Data Analytics
- Network Fundamentals
(new name: Infrastructure Basics)
- Cloud Computing
- HTML & CSS
- Java Script

1

≈ 4.5 hours
per week
during
semester

Mentor

As a mentor, you are paired with one or two ReDI learners for a duration of 6 months.

You can choose from a wide array of topics you feel confident mentoring in (e.g. design, coding, writing a C.V., business English, etc.)

2

1 hour per
month for 6
months

Career Trainer

You can hold career workshops in the following topics:

- Start your tech career in Germany
- Let your CV shine like a diamond
- Brush up your LinkedIn profile
- Mastering the Job Interview

3

7 hours per
semester

Apply here

through this application form

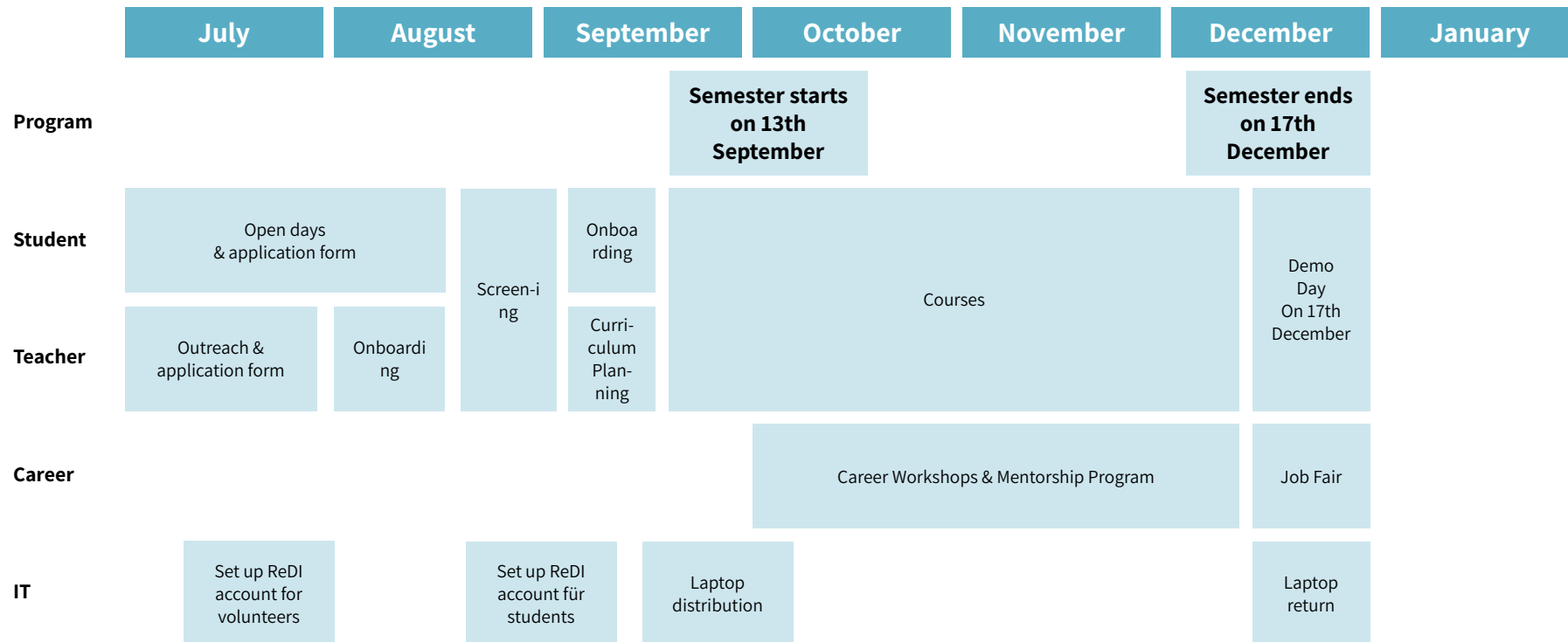
<https://redischool.typeform.com/to/XRB370ax>

... or with this QR code:



We will contact you shortly after for a short and friendly chat.

Timeline Autumn Semester 2021



1. Teachers

Our teachers are tech professionals or university students, who are all eager to share their **knowledge on the tech industry** with students.

They are friendly and patient to answer questions from students.

Teaching at ReDI is a great opportunity to **interact** with students from diverse backgrounds!

Get to know our teachers [HERE](#)



What we teach – NRW Autumn 2021 courses

Learning track		Web Development	User-centered Design	Data Science		Cloud and Infrastructure
		Self-study Cisco Cybersecurity (15 hours)				
Beginner	Career Support	HTML and CSS	Web Design Fundamentals	Introduction to Python		Network Fundamentals
Intermediate		JavaScript	UX Design	Data Analytics		Cloud Computing
Advanced <small>Available from Spring 2022</small>		React	UI Design	Machine Learning	IoT	Workspace

2 semesters per year, students take 1 course per semester
1 semester = 4 months, 1 course offers 2 lessons per week



Courses



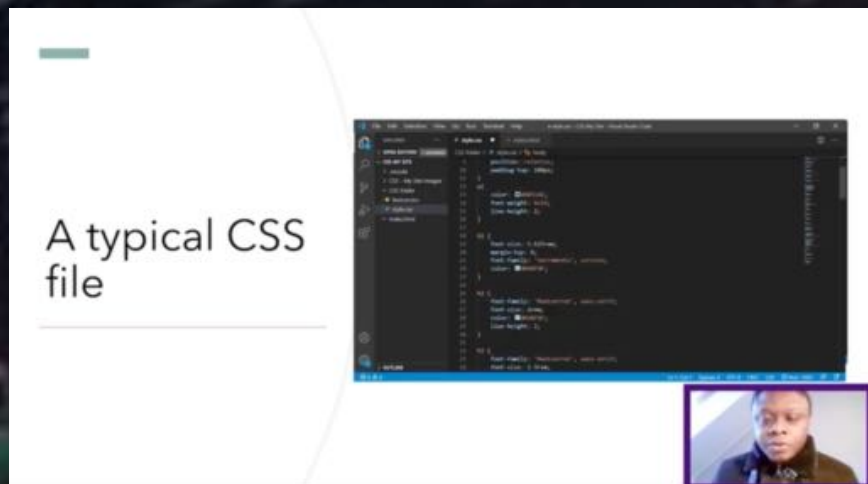
Career support (workshops, jobfair)

What we teach - NRW Autumn Timetable

Monday	Tuesday	Wednesday	Thursday	Friday
Introduction to Python 19:00 – 21:00	Network Fundamentals 18:30 – 20:30	Introduction to Python 19:00 – 21:00	Network Fundamentals 18:30 – 20:30	
Data Analytics 19:00 – 21:00	Cloud Computing 19:00 – 21:00	Data Analytics 19:00 – 21:00	Cloud Computing 19:00 – 21:00	
Web Design Fundamentals 19:00 – 21:00	HTML and CSS 19:00 – 21:00	Web Design Fundamentals 19:00 – 21:00	HTML and CSS 19:00 – 21:00	
UX Design 19:00 – 21:00	JavaScript 19:00 – 21:00	UX Design 19:00 – 21:00	JavaScript 19:00 – 21:00	

Web Development track

See student presentations!



HTML and CSS
[See Presentation](#)



JavaScript
[See Presentation](#)

HTML and CSS

Required number of teachers: 7

Teacher's expected workload

4.5 hours/week in average between Aug and Dec 2021 to conduct:

- Attending onboarding & curriculum planning
- Screening students (optional)
- Running the course

Lessons

- 24 tech lessons, Tue & Thu 19:00 – 21:00
- Duration: Tue, 14th September – Thu, 16th December
- DemoDay: Fri 17th December

Course description

Learn the basic skills of web development with HTML and CSS and use them to create a simple website. Everyone can build a website, we'll just teach you how!

Curriculum outline

- HTML Structure, Tags, Table, Multimedia, Forms
- CSS Descendant selector, Colors, Formatting Text with CSS, Fonts, Link styling, List styling
- CSS Units, Height and Width
- CSS Box Model, Margin, Padding
- Normal flow
- CSS Display types, Floats, Flexbox
- CSS Positioning relative, absolute, Overflow & Text Effects
- Cascade Inheritance Specificity
- CSS Selectors II
- CSS Background & Color Values
- Responsive Design
- CSS Animations
- Accessibility

Curriculum and materials are available and shared on the teachers onboarding day

JavaScript

Required number of teachers: 7

Teacher's expected workload

4.5 hours/week in average between Aug and Dec 2021 to conduct:

- Attending onboarding & curriculum planning
- Screening students (optional)
- Running the course

Lessons

- 24 tech lessons, Tue & Thu 19:00 – 21:00
- Duration: Tue, 14th September – Thu, 16th December
- DemoDay: Fri 17th December

Course description

Create and deploy a simple web application using JavaScript! You will end up having a good command of the dominating JavaScript language.

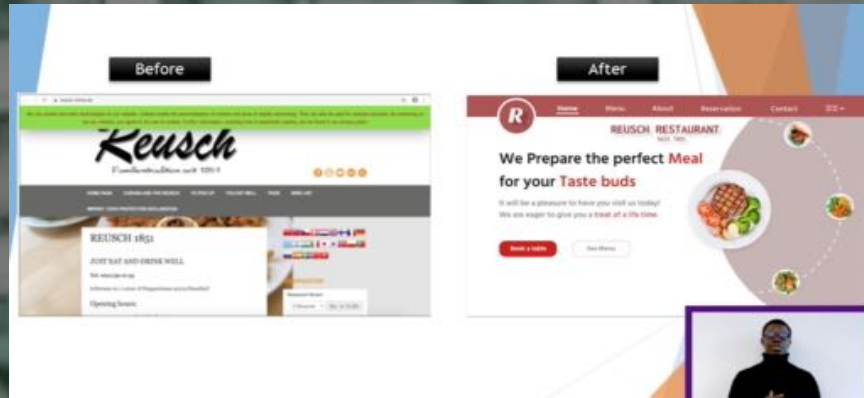
Curriculum outline

- Setting the scene: HTML, CSS and JavaScript
- Introduction and Setup of Tools
- Working with console.log
- Variables, Types, and Operators
- Conditionals, Loops, and Arrays
- Functions and Objects
- JSON
- Events and Input
- DOM: Adding/Removing Elements
- How to work with an API and HTTP Basics
- JavaScript Libraries
- Final Project

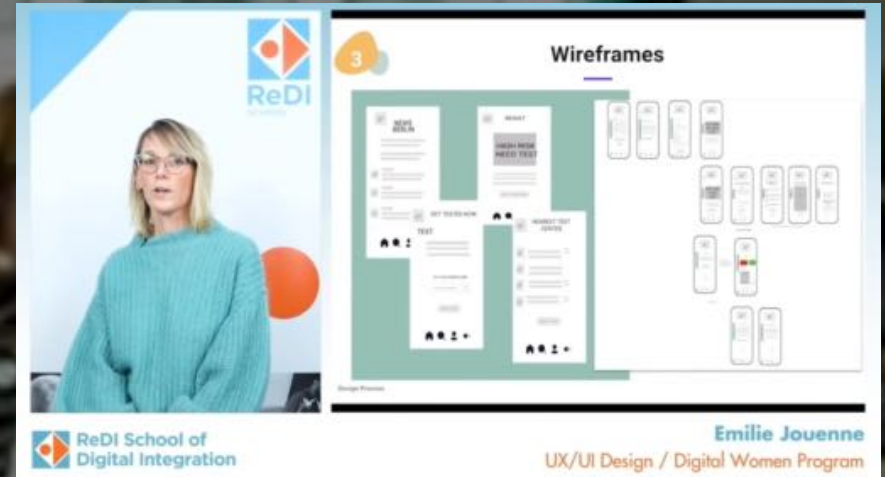
Curriculum and materials are available and shared on the teachers onboarding day

User-centered Design track

See student presentations!



Web Design Fundamentals
[See Presentation](#)



UX Design
[See Presentation](#)

Web Design Fundamentals

Required number of teachers: 7

Teacher's expected workload

4.5 hours/week in average between Aug and Dec 2021 to conduct:

- Attending onboarding & curriculum planning
- Screening students (optional)
- Running the course

Lessons

- 24 tech lessons, Mon & Wed 19:00 – 21:00
- Duration: Mon 13th September – Wed 15th December
- DemoDay: Fri 17th December

Course description

Learn the fundamentals of color theory, typography, iconography, layout, content structure, and user-centered design in a project-based approach.

Curriculum outline

- Introduction to User-centered Design
- Empathy Map, Personas, Competitor Analysis
- Figma practice
- Navigation Theory
- Interaction Design + Site Map
- Portfolios Q&A
- Wireframes
- Visual Design, Responsive Design
- Accessibility, Analytics
- Usability Test
- Presentation of your project

Curriculum and materials are available and shared on the teachers onboarding day

UX Design

Required number of teachers: 7

Teacher's expected workload

4.5 hours/week in average between Aug and Dec 2021 to conduct:

- Attending onboarding & curriculum planning
- Screening students (optional)
- Running the course

Lessons

- 24 tech lessons, Mon & Wed 19:00 – 21:00
- Duration: Mon 13th September – Wed 15th December
- DemoDay: Fri 17th December

Course description

UX Design course focuses on the design practice in websites and apps. You will learn how to design complex but friendly-to-use User Experience (UX) while making websites and apps.

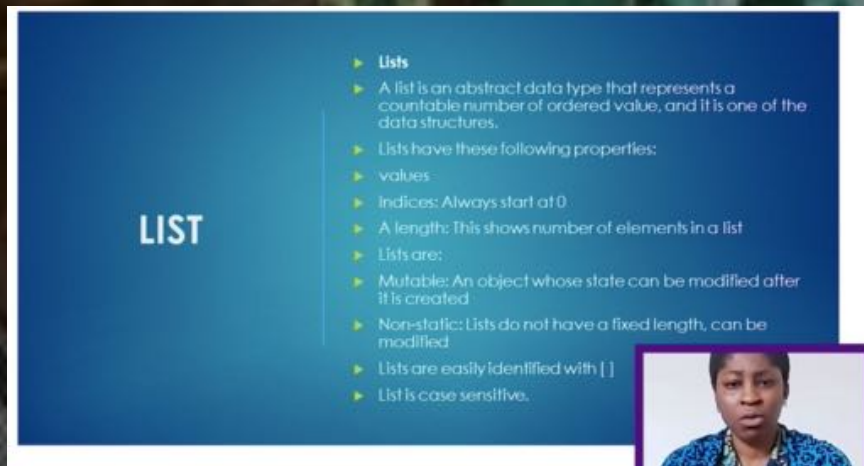
Curriculum outline

- Intro to UX Design and project briefing
- Design Research
- Prob Definition / Customer Journey
- Figma practice
- Info Architecture / Wireframing
- Visual Design / Layouting
- Design Ethics
- User Testing
- Presentation of your project

Curriculum and materials are available and shared on the teachers onboarding day


Data Science track

See student presentations!

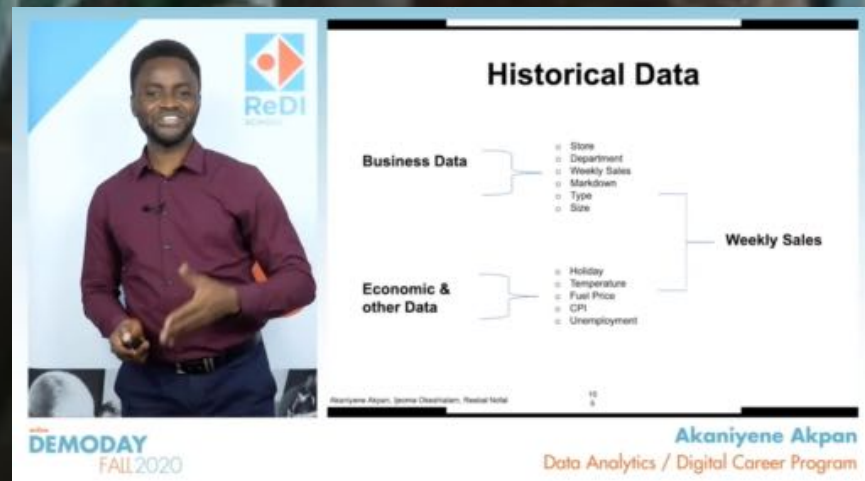


LIST

- ▶ **Lists**
- ▶ A list is an abstract data type that represents a countable number of ordered value, and it is one of the data structures.
- ▶ Lists have these following properties:
- ▶ values
- ▶ Indices: Always start at 0
- ▶ A length: This shows number of elements in a list
- ▶ Lists are:
- ▶ Mutable: An object whose state can be modified after it is created
- ▶ Non-static: Lists do not have a fixed length, can be modified
- ▶ Lists are easily identified with []
- ▶ List is case sensitive.



Introduction to Python
[See Presentation](#)



Historical Data

Business Data

- Store
- Department
- Weekly Sales
- Markdown
- Type
- Size

Economic & other Data

- Holiday
- Temperature
- Fuel Price
- CPI
- Unemployment

Weekly Sales

ReDl

DEMODOY FALL 2020

Akaniyene Akpan
Data Analytics / Digital Career Program

Data Analytics
[See Presentation](#)

Introduction to Python

Required number of teachers: 7

Teacher's expected workload

4.5 hours/week in average between Aug and Dec 2021 to conduct:

- Attending onboarding & curriculum planning
- Screening students (optional)
- Running the course

Lessons

- 24 tech lessons, Mon & Wed 19:00 – 21:00
- Duration: Mon 13th September – Wed 15th December
- DemoDay: Fri 17th December

Course description

Get started into the world of programming with Python. You will learn how to program concepts, solve problems, and how to search for solutions and ideas. Building a computer program is NOT rocket science!

Curriculum outline

- Introduction, Installation
- Basic Data Types, Loops, Operators & Functions
- Basic Mathematics
- List and Dictionaries, Set & Tuples
- Comprehension, Class & Inheritance (Intro), Advanced Class Dev & Inheritance
- Introduction to Libraries & Standard Library
- Numpy recap & Pandas, Matplotlib
- (Flask / Django) / FastAPI
- Dependency management 101: pip + requirements.txt + virtual envs
- GIT + Version control, Project Structure
- Error Handling (+introduce concept testing)
- Project

Curriculum and materials are available and shared on the teachers onboarding day

Data Analytics

Required number of teachers: 7

Teacher's expected workload

4.5 hours/week in average between Aug and Dec 2021 to conduct:

- Attending onboarding & curriculum planning
- Screening students (optional)
- Running the course

Lessons

- 24 tech lessons, Mon & Wed 19:00 – 21:00
- Duration: Mon 13th September – Wed 15th December
- DemoDay: Fri 17th December

Course description

Analyze data to win essential insights into people's behavior and trends. You will learn how to analyze datasets and visualize your conclusions. You will also get an introduction to machine learning.

Curriculum outline

Data Analysis

- Basic and composite built-in data types; Introduction to series
- DataFrames. Indexing and slicing; Missing values
- String processing and regex; Groupby and aggregation
- Joins & concat/unions

Visualization

- Types of Plots; Intro to Matplotlib and Seaborn
- Customize your plots

Curriculum and materials are available and shared on the teachers onboarding day

Cloud and Infrastructure track

See student presentations!

What did I learn from Networking Fundamentals ?

❖ The OSI model to describe how computer systems communicate

1. Physical layer: cables
2. Data link: MAC addresses, switching, Ethernet
3. Network: IPv4, routing, subnetting
4. Transport: TCP, UDP (transport protocols)
5. Session:
6. Presentation: encryption
7. Application: http

❖ Hot topics:

Cloud and infrastructure, IPv6, etc.



Networking Fundamentals
[See Presentation](#)

Cloud Computing
Presentation Available Soon

Networking Fundamentals

Required number of teachers: 7

- We accept student candidates from 3 ReDI locations (Berlin, Munich, NRW)

Teacher's expected workload

4.5 hours/week in average between Aug and Dec 2021 to conduct:

- Attending onboarding & curriculum planning
- Screening students (optional)
- Running the course

Lessons

- 24 tech lessons, Tue & Thu 18:30 – 20:30
- Duration: Tue, 14th September – Thu, 16th December
- DemoDay: Fri 17th December

Course description

Learn the very basis for all modern IT with computer network professionals from Accenture! This includes learning architecture, structure, and functions needed to support the operations and priorities of the biggest companies to small innovative retailers.

Curriculum outline

- The curriculum is developed by the Accenture's team

Part 1

- Intro Session +Network 101
- Switching, VLANs
- Wi-Fi, IP Addresses
- Binary System, Subnetting
- DNS, Routers and Routing
- Network Addr. Translation, TCP and UDP & Tools

Part 2

- CCNA Video course from Udemy and Review in class
- Networking in the AWS Cloud, WAN & Internet, Network Security, IPv6

Curriculum and materials are available and shared on the teachers onboarding day

Cloud Computing

Required number of teachers: 7

- We accept teachers and student candidates from 3 ReDI locations (Berlin, Munich, NRW)

Teacher's expected workload

4.5 hours/week in average between Aug and Dec 2021 to conduct:

- Attending onboarding & curriculum planning
- Screening students (optional)
- Running the course

Lessons

- 24 tech lessons, Tue & Thu 19:00 – 21:00
- Duration: Tue, 14th September – Thu, 16th December
- DemoDay: Friday 17th December

Course description

Learn about cloud-computing platforms and what it can do for businesses. Prepare certification exam of Microsoft Azure Fundamentals!

Curriculum outline

Intro to Networking, Intro to Security

Intro to Cloud

- Infrastructure
- Storage
- Computing

Main Cloud Provider

- Azure
- AWS
- Google

Microsoft AZ900 Certification

- Exam preparation (2 days)
- Taking an exam

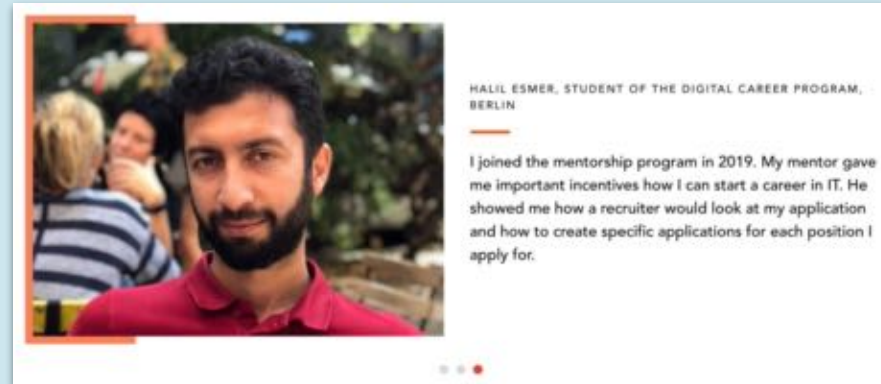
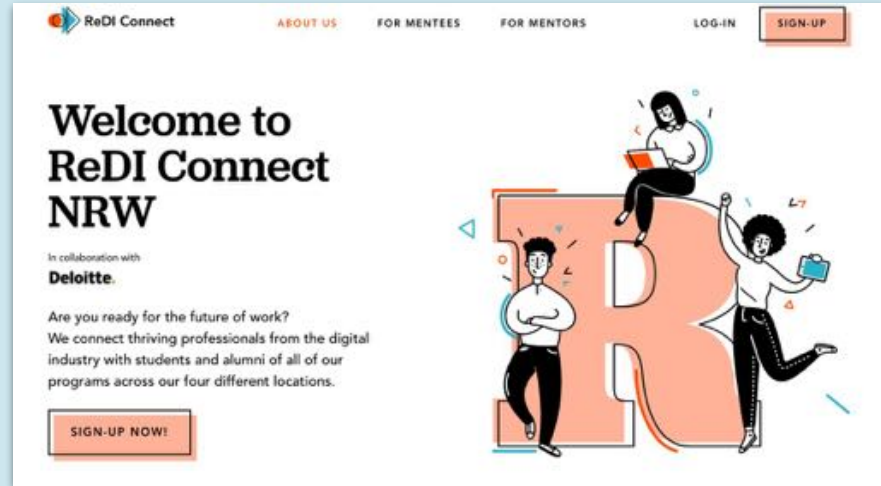
We are creating the curriculum and materials. They will be shared on the teachers onboarding day

2. Mentors

If you have a limited time and help our students successful in their career, join our mentorship program!

Our students need 1:1 advice from thriving professionals from the digital industry, like you!

1. Get career and personal advice and support
2. Get support with your ReDI Course/ Coding & technical skills
3. Grow your personal and professional network



3. Career Trainers

Are you an expert in HR, recruiting and management? As a Career Trainer, you will be organising one of four Career Workshops to help students develop their soft skills.

- Start your tech career
- Let your CV shine like a diamond
- Brush up your LinkedIn Profile
- Mastering the job interview

Students said they liked the following parts of the workshops...



The interactive aspect



What is strong CV

the practice session



The breakout rooms with the employees - that allowed to raise personal and practical career questions, and hear their own take as ppl from the infield.

listening the experience of other participants

Job Market Integration



Getting hired...

50%

is what you know

50%

is **who** you know

Without a network, finding a job can be really challenging – even with tech skills. That's why ReDI School is not only offering technical skills but also a professional network.

Career Support Services

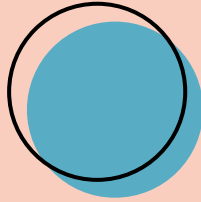
Tech Skills & Network Soft Skills

Career
Workshops

Mentorship
Program

Company
events
& Job Fair

Connecting our talents with companies



With our Career Services we connect our talents with the industry. Part of our services:

- ReDI HR Summit and Job Fair
- ReDI Talent Pool
- ReDI Connect: The Mentorship Program
- Career Workshops
- Company Visits
- Tech Career Talks with Industry leaders



AI, QUANTUM COMPUTING,
BLOCKCHAIN - BUSINESS
AS USUAL?

DR. JOSEPH REGER
CEO FUJITSU, CE & EMBA

Tech Talks with Leaders



ReDI HR Summits

Our students are invited to Job Fairs where they can meet companies who want to offer them career opportunities

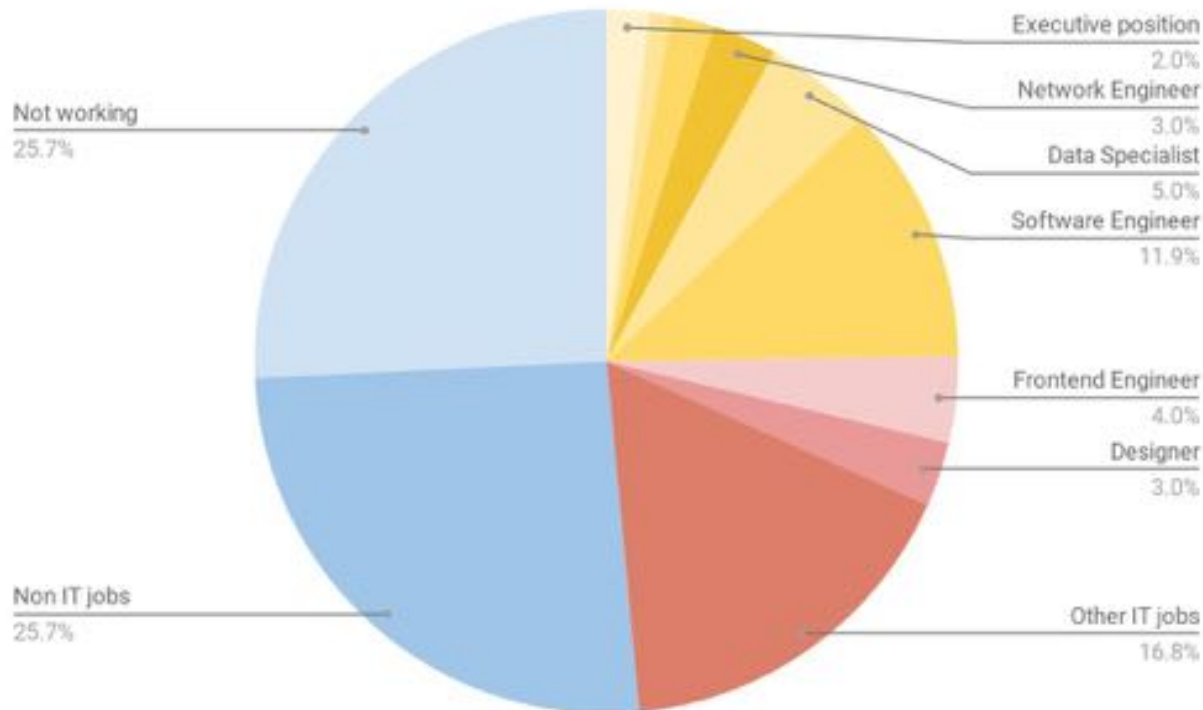


Does it work?

Job Integration *What our students are doing after ReDI? (June 2020)*



n = 101



- 2 Executive position (COO, CTO)
- 1 Backend Engineer
- 2 Cloud Engineer
- 3 Network Engineer
- 5 Data Specialist (Data Scientist, Analyst)
- 12 Software Engineer
- 4 Frontend Engineer
- 3 Designer (UX/UI, Brand)
- 17 Other IT jobs (QA, Backoffice, Digital Marketing, Technical Writing, Work students etc)
- 26 Non IT jobs (Customer Service, Salesforce, Teacher, Accountant, Delivery Driver etc)
- 26 Not working (Student, Unemployed)

*Survey sent to alumni who studied at ReDI between 2016 and 2020

Role Models — ReDI Alumni



Mohammad
ServiceNOW
Developer
Accenture



Rami
Full-stack Developer
kloeckner.i



Rita
Solutions Systems
Engineer
Cisco



Omar
Gründer der
App Bureaucrazy



Abdulsalam
Start up! Trainee
Deutsche Telekom



Amro
IT Consultant
Accenture



Natalia
Web Designer
Ellusion



Mohamed
Azubi
Fachinformatiker
ProSiebenSat.1



Abdullahi
Software Engineer
Moxa
Ada Fellowship
Allianz



Idlir
IT Support
Specialist /
Microsoft 365
Beck et al.



Parisa
Data Scientist
MHP - Porsche



Ferdaus
Netzwerk-Admin.
Intel / Experis



Sajjad
Software Ingenieur
Amazon



Amr
Blockchain
Developer
Capgemini



Tung
Developer Associate
SAP



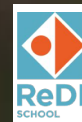
Yasaman
Business Analytics
Werkstudentin
Kloeckner.i



60% Women

When ReDI started training tech skills, only 10 % women joined the classes. With implementing the Digital Women Program we manage to have 60 % female students in our school in total. And 30% in the Digital Career Program.

ReDI in the media



Handelsblatt

“Mutmacherin des Jahres 2018”

Süddeutsche Zeitung

“Nahaufnahme: Bildung für alle”

Bloomberg

“These Refugees Are Coding Their Way to New Lives in Europe”



„ReDI named as Europe`s 100 Digital Champions“



“Last Look: Refugee Coding School”

Capital

“Technologie überwindet Grenzen”

DIE ZEIT

„Integration: Eben noch Flüchtling, jetzt Unternehmer



Podcast: „Eine Schule als Social Business“

Keynotes & Awards in the last year

IZ
Ada
G100
Caritas
Femgems
Giga Gipfel
Changerider
Cisco Connect
British Council
Startup Teens
SZ-Wirtschaftsgipfel
Tech Days München
She Means Business
Microsoft Code Affair
Friedrich Ebert Stiftung
Women in Tech Conference
Microsoft “Business Summit”
German Startup Award 2020
Schwarzkopf Million Chances Award



Welcome! VIPs visiting ReDI School



António Guterres
General Secretary
United Nations



Angela Merkel
Chancellor of Germany



Annette Widmann-Mauz
State Minister and Member of
the German Bundestag



Margrethe Vestager
EVP European Commission



Mark Zuckerberg
CEO, Facebook



Sheryl Sandberg
COO, Facebook



Ahmed Hussen
Minister of refugees,
migrants, integration
Canada

Your Impact



**Leave no one behind:
Support digital
education!
Help us making our
courses accessible for
everyone.**

Program Donation

We have high interest in our programs for women, kids and teens. We could do more with your help. Help us to train marginalized people for a better future.

Your Donation

Coding Classes, Digital Literacy, Intro to Coding or Robotics for Kids & Teens. Our programs are as diverse as our students - reach out and let's discuss how to impact best.



Are you ReDI?



Contact

Cosimo Gottschall
Head of Community
Development

+49 1 76 64 36 14 45
volunteernrw@redi-school.org
www.redi-school.org

Apply here

through this application form
<https://redischool.typeform.com/to/XRB370ax>

... or with this QR code:



We will contact you shortly after for a short and friendly chat.