

# MARTIN MOHAMMED

## MID-LEVEL SOFTWARE ENGINEER



### CONTACT

- Kleiner Hirschgraben 8  
60311 Frankfurt
- martin@58agents.com
- +49 179466 1350

### LANGUAGES

- German** | native
- English** | fluent
- Spanish** | basic

### EDUCATION

**Abitur (Ø 1.2) | Gerhart-Hauptmann-Schule, Germany**  
Focus in Math & Computer Science

### SKILLS

**Methods / Paradigms:**  
Product Owning, DevOps, Continuous Delivery, Agile Coaching, SCRUM, Kanban, Lean Startup, MVP

**Programming Languages (+ MD):**  
TypeScript/Javascript, .Net, Bash/Shell, Go, SQL, Python, R, C++, HTML/CSS

**Database & Tools:**  
PostgreSQL, MongoDB, MySQL, AWS DynamoDB

**Data Science Tools:**  
Python3, Matplotlib, Pandas, Numpy, Scikit-learn, Scipy, Tensorflow, Keras, PyTorch, Langchain, Apache Spark, Apache Kafka, Apache Hadoop, AWS Redshift, OpenCV

**Application Frameworks:**  
Angular 2+, React, Next.js, Vue, Svelte, LESS/SASS/SCSS

**Build & CI/CD:**  
GitLab CI, AWS DevOps, GitHub Actions, NPM, Yarn

**Cloud technologies:**  
GCP, AWS, MS Azure, Kubernetes, Docker, CDK, SST

**Version Control:**  
Git, GitHub, GitLab

### SUMMARY

Gifted with an exceptional memory since childhood, I am capable of recalling 150 digits of PI with ease. This ability significantly enhances my learning speed across diverse subjects.

At 12, I ventured into programming and later founded a startup, which secured a €50,000 grant from the German Ministry of Economy and Technology. Our app, developed through this funding, achieved over 10,000 downloads within its initial fortnight on the app store. Post-startup, I spent two weeks in San Francisco as part of an internal R&D team focusing on applied Machine Learning and Robotics.

In addition to my entrepreneurial pursuits, I have had the privilege of working with various international companies, including BASF and PwC. These experiences have enriched my professional journey and provided me with valuable insights into diverse industries and global perspectives.

### EXPERIENCE (FULL-TIME)

#### SOFTWARE ENGINEER & DATA SCIENTIST

**58agents GmbH, Frankfurt am Main | 06/2023 - present**

- Lead Data Science initiatives, creating internal tools using OpenAI and Huggingface vector embeddings stored in Pinecone. Implemented RAG for contextual queries to the OpenAI LLM via Langchain using Pinecone as Vector Database.
- Developed ETL pipelines for Horizon, transforming Data Lake content to the Data Warehouse. Crafted specialized interfaces for BI Team to access crucial insights seamlessly.
- Involved in the DevOps segment of the PwC project led by 58agents, focusing on Kubernetes and Helm-based deployments.

#### SOFTWARE ENGINEER & PRODUCT OWNER

**IBM Deutschland GmbH, San Francisco, Frankfurt am Main | 03/2023 - 06/2023**

- During my time at IBM in San Francisco, I conducted pioneering research in autonomous driving solutions, specializing in computer vision, convolutional neural networks, OpenCV, and TensorFlow. This experience provided valuable insights into cutting-edge technologies and contributed to the advancement of autonomous driving solutions.
- Subsequently, I expanded my global perspective and skills by spending one month working in Frankfurt.
- In my role as the leader of the Body Culture Group project in Darmstadt, I oversaw data analysis of customer data. Utilizing unsupervised learning algorithms such as k-means, I uncovered intricate customer patterns and streamlined data transmission to the warehouse using Apache Spark and Apache Kafka.
- This project spanned a wide array of technologies. On the front-end, I led a team proficient in HTML, CSS, SCSS, React, JavaScript, and TypeScript. On the backend, I leveraged Python3, Apache Spark, Apache Kafka, AWS Data Warehouse (Amazon RedShift), and orchestrated a Micro-services Infrastructure, integrating REST APIs, Websockets, and the Apollo GraphQL API.

#### SOFTWARE ENGINEER

**Digital David AG, Frankfurt am Main | 06/2022 - 03/2023**

- Led the Front-end & Design Team for the "Karrierakete" client project at IT-Frankfurt. Acted as the crucial liaison between the front-end, design team, and the client. Ensured seamless communication and guaranteed that the development quality aligned with customer expectations.
- Utilized technologies such as Microsoft Azure, JavaScript, TypeScript, HTML, CSS, SCSS, Tailwind, React, Figma, and Zeplin to facilitate project requirements.

#### SOFTWARE ENGINEER

**IT Blox GmbH, Darmstadt | 10/2020 - 06/2022**

- Assisted the CEO in a project with BASF, a collaboration with the German Chemistry Cooperation. Under the guidance of a seasoned data engineer, I learned invaluable best practices and common solutions, initiating my journey in this domain.
- Contributed to the development of ETL Pipelines utilizing Apache Spark, Apache Kafka, Apache Hadoop, MySQL, Python3, Docker, Kubernetes, and AWS for serverless infrastructure.

### CERTIFICATIONS AND ACHIEVEMENTS

#### Startup funding by the German Government with 50.000 €

- Mobile Application FamilyTodoey made with iOS and published on Apple Store and 10.000 early adopters within two weeks in Germany



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Reference Number: 0004

## CERTIFICATE OF COMPLETION

# Learn C++ Programming - Beginner to Advance- Deep Dive in C++

Instructors **Abdul Bari**

## Martin Mohammed

Date **Aug. 6, 2023**

Length **30.5 total hours**



Certificate no: UC-ced3186a-a7b5-4400-b21f-1cb48b234195

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Reference Number: 0004

CERTIFICATE OF COMPLETION

# LangChain- Develop LLM powered applications with LangChain

Instructors **Eden Marco**

## Martin Mohammed

Date **Dec. 21, 2023**

Length **7 total hours**



# Succeeding in Web Development: Full Stack and Front End

Kurs von Martin Mohammed abgeschlossen  
Okt 18, 2021 at 11:48AM UTC • 1 Stunde 3 Minuten

Top-Kenntnisse

**Full-Stack-Entwicklung**

**Frontend-Entwicklung**

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Head of Content Strategy, LinkedIn Learning

Zertifikatsnummer: 80c4d800233c54cb0aa417175c90952713d5bd0fd40fb22a25e983275c7f4b73





# Programming Foundations: Fundamentals

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Okt 17, 2021 at 09:50AM UTC • 2 Stunden 10 Minuten

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# Modern React with Redux

Instructors **Stephen Grider**

## Martin Mohammed

Date **March 14, 2022**

Length **52.5 total hours**



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Length **8.5 total hours**



Certificate no: UC-ad71b9b7-7cfc-447b-b504-bbcf37737ee9

Certificate url: ude.my/UC-ad71b9b7-7cfc-447b-b504-bbcf37737ee9

Reference Number: 0004

## CERTIFICATE OF COMPLETION

# AWS Serverless APIs & Apps - A Complete Introduction

Instructors **Academind by Maximilian Schwarzmüller, Maximilian Schwarzmüller**

## Martin Mohammed

Date **July 25, 2023**

Length **8 total hours**



Certificate no: UC-a4780bac-7a17-4dd9-94c1-c84f671c50b3

Certificate url: ude.my/UC-a4780bac-7a17-4dd9-94c1-c84f671c50b3

Reference Number: 0004

CERTIFICATE OF COMPLETION

# Understanding TypeScript - 2022 Edition

Instructors **Maximilian Schwarzmüller**

## Martin Mohammed

Date **May 29, 2022**

Length **15 total hours**



Certificate no: UC-cbd1e789-5205-44db-bbc6-eb81860e5b42

Certificate url: ude.my/UC-cbd1e789-5205-44db-bbc6-eb81860e5b42

Reference Number: 0004

CERTIFICATE OF COMPLETION

# Modern React with Redux

Instructors **Stephen Grider**

## Martin Mohammed

Date **March 14, 2022**

Length **52.5 total hours**



Certificate no: UC-389429c2-f8ab-4b82-b622-4256b0316618

Certificate url: ude.my/UC-389429c2-f8ab-4b82-b622-4256b0316618

Reference Number: 0004

CERTIFICATE OF COMPLETION

# The Complete 2022 Web Development Bootcamp

Instructors **Dr. Angela Yu**

## Martin Mohammed

Date **Feb. 7, 2022**

Length **55 total hours**



# Become a Software Developer

Lernpfad von Martin Mohammed abgeschlossen

Nov 15, 2021 at 01:51PM UTC • 30 Stunden 23 Minuten

Top-Kenntnisse

Programmieren

Softwareentwicklung

A handwritten signature in black ink that reads "Dan Boden".

Head of Content Strategy, LinkedIn Learning

Zertifikatsnummer: 0450f90e4c09c8b4ddd57c4e2fe469910c0f11a885b84bab5dfe993aa352ae55





# CSS Essential Training

Kurs von Martin Mohammed abgeschlossen  
Nov 07, 2021 at 09:42AM UTC • 4 Stunden 29 Minuten

Top-Kenntnisse

**Cascading Style Sheets (CSS)**

A handwritten signature in black ink that reads "Dan Boden".

Head of Content Strategy, LinkedIn Learning

Zertifikatsnummer: le441c27ab9d967432fc30e0959820bbef9644cb6de2f0717cc67f6864dd1b0b





# JavaScript Essential Training

Kurs von Martin Mohammed abgeschlossen

Nov 13, 2021 at 09:53AM UTC • 5 Stunden 29 Minuten

Top-Kenntnisse

JavaScript

A handwritten signature in black ink that reads "Dan Boden".

Head of Content Strategy, LinkedIn Learning

Zertifikatsnummer: 76a189ab0f7586847ec754dallcffb342924e0c00da53f618d467fdc987f75f9

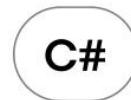




# Learning C#

Kurs von Martin Mohammed abgeschlossen  
Nov 14, 2021 at 02:48PM UTC • 3 Stunden 5 Minuten

Top-Kenntnisse



A handwritten signature in black ink that appears to read "Dan Boden".

Head of Content Strategy, LinkedIn Learning

Zertifikatsnummer: 293e62617e48f827f6304a8db80140bbb5061fdf83847236fc13f639cbb8ab8a





# Learning Java 11

Kurs von Martin Mohammed abgeschlossen

Nov 13, 2021 at 01:33PM UTC • 2 Stunden 39 Minuten

Top-Kenntnisse

Java

A handwritten signature in black ink that reads "Dan Boden".

Head of Content Strategy, LinkedIn Learning

Zertifikatsnummer: 50fe3eb2b2fd942eb5013b44fcbaeb7156b9c8ce2a502c84087a2e006438434b





# Learning SQL Programming

Kurs von Martin Mohammed abgeschlossen

Nov 15, 2021 at 01:51PM UTC • 1 Stunde 46 Minuten

Top-Kenntnisse



A handwritten signature in black ink that reads "Dan Boden".

Head of Content Strategy, LinkedIn Learning

Zertifikatsnummer: 8e108859277f7e37913ff2e302cbfa6cec4c8df23f4df57d0553f1d5b02fe210





# Programming Foundations: Web Security

Kurs von Martin Mohammed abgeschlossen  
Nov 14, 2021 at 03:18PM UTC • 2 Stunden 17 Minuten

Top-Kenntnisse

**Sicherheit von Webanwendungen**

A handwritten signature in black ink that reads "Dan Boden".

Head of Content Strategy, LinkedIn Learning

Zertifikatsnummer: 376aaac38c5f9de933846d4ee8c0c36b80cc65683e0f1c7136917a7e4774bc4f





# HTML Essential Training

Kurs von Martin Mohammed abgeschlossen  
Okt 18, 2021 at 06:42PM UTC • 2 Stunden 45 Minuten

Top-Kenntnisse

HTML

A handwritten signature in black ink that reads "Dan Boden".

Head of Content Strategy, LinkedIn Learning

Zertifikatsnummer: 4a07fd7dd405bfd2afc68f6db155fc25f1c742ab2156edb8ae8fce8195e4d27





# Learning Python (2020)

Kurs von Martin Mohammed abgeschlossen  
Okt 21, 2021 at 01:35PM UTC • 2 Stunden 27 Minuten

Top-Kenntnisse

**Python (Programmiersprache)**

A handwritten signature in black ink that reads "Dan Boden".

Head of Content Strategy, LinkedIn Learning

Zertifikatsnummer: b5dda458dc45f91c711a9c686987b0b662c042975239cea71a245e5efe46f3c9



Issued on  
9th October 2021



# CERTIFICATE OF COMPLETION

Jon Peters, CM

Ashu Savani, CTO

Ben Spring, CEO

**catF1sh**

successfully completed the  
**Pre Security Learning Path**

THM-J6S0JDR06N



# Programming Foundations: Databases

Kurs von Martin Mohammed abgeschlossen  
Okt 18, 2021 at 10:24AM UTC • 1 Stunde 25 Minuten

Top-Kenntnisse

**Datenbankentwicklung**

A handwritten signature in black ink that reads "Dan Boden".

Head of Content Strategy, LinkedIn Learning

Zertifikatsnummer: 0a03e3a7cff06ab8cea8d8bcccec8e3b48f4a130e5017e2e012c1cc44d3995fd





# Programming Foundations: Fundamentals

Kurs von Martin Mohammed abgeschlossen  
Okt 17, 2021 at 09:50AM UTC • 2 Stunden 10 Minuten

Top-Kenntnisse

**Programmieren**

A handwritten signature in black ink that reads "Dan Boden".

Head of Content Strategy, LinkedIn Learning

Zertifikatsnummer: 5e0c99461ae8bdd85e9d2e32e4d834e6d5d483f6b48c26dd1a08f5a9ec1d7b6





# Succeeding in Web Development: Full Stack and Front End

Kurs von Martin Mohammed abgeschlossen  
Okt 18, 2021 at 11:48AM UTC • 1 Stunde 3 Minuten

Top-Kenntnisse

**Full-Stack-Entwicklung**

**Frontend-Entwicklung**

A handwritten signature in black ink that reads "Dan Boden".

Head of Content Strategy, LinkedIn Learning

Zertifikatsnummer: 80c4d800233c54cb0aa417175c90952713d5bd0fd40fb22a25e983275c7f4b73

