

M. Saeed Mafipour

FULL-STACK DEVELOPER · SOFTWARE DEVELOPER · AI DEVELOPER

✉ saeed.mafipour@gmail.com

📍 Munich, Germany

🏠 [Check Out My Portfolio](#) →



Education

Dr. -Ing. Technical University of Munich (TUM)

PH.D. IN ENGINEERING

- Research focus on software development, AI, and digitalization in construction.

Munich, Germany

2020-2024

M.Sc. University of Tehran

M.Sc. IN STRUCTURAL ENGINEERING

Tehran, Iran

2017-2020

B.Sc. University of Zanjan

B.Sc. IN CONSTRUCTION ENGINEERING

Zanjan, Iran

2013-2017

Job Experiences

2024-2025 **Fullstack developer** Developed fullstack applications for remotely controlling machines and robots on construction sites. Utilized LiDAR and camera sensors, AI for visual data interpretation, and automation for navigation and manipulation tasks. Worked with React, TypeScript, and 3D deep learning technologies.

Aiina Robotics,
Germany

2020-2024 **Research Associate** Developed software for model reconstruction, digital twinning, and point cloud processing. Created a model generator (plugin) for Autodesk to produce the 3D model of infrastructure. Additionally, served as a lecturer for the engineering databases (SQL and NoSQL) master course at TUM.

TUM, Germany

2017-2020 **Frontend Developer** Developed commercial web applications for various clients using HTML, CSS, JavaScript, TypeScript, and React.js. Contributed partially to backend development with Node.js and Express.js.

Webdaran, Iran

Job Interests

- Developing full-stack applications that integrate AI to enhance functionality, automation, and decision-making.
- Machine/Deep learning with regular and irregular data structures such as images, texts, point clouds, and meshes.
- Creating digital representations of physical systems for simulation, optimization, and behavioral prediction.
- Data Interpretation Analysis – Extracting insights from visual and non-visual data using AI-driven techniques.

Technologies

Programming JavaScript, TypeScript, Python, C#, C++, SQL, Java, LaTeX, MATLAB.

Frontend React, Next.js, Tailwind CSS, TypeScript, React Query, Shadcn, Sass, Bootstrap, HTML, CSS.

Backend Node.js, Express, Prisma, Supabase, MongoDB, PostgreSQL, Rest API, Sequelize, Mongoose.

Tools & APIs Git, Github, Docker, Webpack, OpenAI API, Google API, ESLint, NextAuth, Prettier, Leaflet, Stripe API.

AI & Machine Learning Tensorflow, Pytorch, Keras, Scikit-Learn, Pandas, Numpy, 3D Deep Learning, Transformers, LLM.

Certificates

2024 Dr.-Ing./Ph.D. degree in Engineering and Design

Awarded by TUM

2023 AI - Tensorflow Developer Certificate with the ID: 76696257

Awarded by Google

Honors & Awards

2022 Ranked 3rd in CV4AEC (Challenge on Computer Vision in the Built Environment).

Remote event

2021 Ranked 1st in CV4AEC (Challenge on Computer Vision in the Built Environment).

Remote event

Languages

English (C1-TOEFL IBT: 103/120), **German** (B1-B2)