

M. Saeed Mafipour

FULL-STACK DEVELOPER · SOFTWARE DEVELOPER · AI DEVELOPER

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📍 Munich, Germany

📅 February 18, 1995 · Age: 30

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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 Interests

- Developing full-stack web 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.

Job Experiences

Software Developer & Postdoc Contributed to software development for machines and robots
2024-2025 utilizing LiDAR and camera sensors, integrated with AI to interpret visual data, enabling automated navigation and manipulation tasks in the construction environment.

Aiina & TUM,
Germany

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

TUM, Germany

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. - Qualification Program 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

2017 Ranked 30th out of 60,000 engineering students in M.Sc. National Entrance Exam.

Tehran, Iran

2017 Ranked 6th in the Engineering Scientific Olympiad.

Tehran, Iran

Languages

Persian (Native), English (C1-TOEFL IBT: 103/120), German (A2-B1)