M. Saeed **Mafipour**

FULL-STACK DEVELOPER · SOFTWARE DEVELOPER · AI DEVELOPER

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📍 Munich, Germany
⚱ February 18, 1995 · Age: 30

Education

Dr. -Ing. Technical University of Munich (TUM)   *Munich, Germany*
PH.D. IN ENGINEERING   *2020-2024*
· Research focus on software development, AI, and digitalization in construction

M.Sc. University of Tehran   *Tehran, Iran*
M.SC. IN STRUCTURAL ENGINEERING   *2017-2020*

B.Sc. University of Zanjan   *Zanjan, Iran*
B.SC. IN CONSTRUCTION ENGINEERING   *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

2024-2025	**Postdoctoral Researcher** Contributed to software development for machines and robots utilizing LiDAR and camera sensors, integrated with AI to interpret visual data, enabling automated navigation and manipulation tasks in the construction environment.	*TUM, Germany*
2020-2024	**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. 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)