

# M. Saeed Mafipour

FULL-STACK DEVELOPER · SOFTWARE ENGINEER · WEB DEVELOPER

☎ (+49) 15206249776

✉ saeed.mafipour@gmail.com

📍 Munich, Germany

🎂 February 18, 1995 · Age: 30



## 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 for Complex Data – Working with structured and unstructured data.
- Creating digital representations of physical systems for simulation, optimization, and behavioral prediction.
- Machine/Deep learning with regular and irregular data structures such as images, texts, point clouds, and meshes.
- Data Interpretation Analysis – Extracting insights from visual and non-visual data using AI-driven techniques.

## Job Experiences

2024-2025	<b>Postdoctoral Researcher</b> 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	<b>Scientific Staff</b> 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

<b>Programming</b>	JavaScript, TypeScript, Python, C#, C++, SQL, Java, LaTeX, MATLAB.
<b>Frontend</b>	React, Next.js, Tailwind CSS, TypeScript, React Query, Shadcn, Sass, Bootstrap, HTML, CSS.
<b>Backend</b>	Node.js Express, Prisma, Supabase, MongoDB, PostgreSQL, Rest API, Sequelize, Mongoose.
<b>AI and Machine Learning</b>	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 3 <sup>rd</sup> in CV4AEC (Challenge on Computer Vision in the Built Environment).	Remote event
2021	Ranked 1 <sup>st</sup> in CV4AEC (Challenge on Computer Vision in the Built Environment).	Remote event
2017	Ranked 30 <sup>th</sup> out of 60,000 engineering students in M.Sc. National Entrance Exam.	Tehran, Iran
2017	Ranked 6 <sup>th</sup> in the Engineering Scientific Olympiad.	Tehran, Iran

## Languages

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