AMIRMOHAMMAD RAEI

E-mail: amir.m.raei@gmail.com ✶ *Telephone number:* +49 17668714276
GitHub: github.com/amirmohammadraei ✶ *LinkedIn:* linkedin.com/in/amirmohammad-raei

Education

Technische Universität Darmstadt — *Darmstadt, Hesse, Germany*
Master of Science in Artificial Intelligence and Machine Learning — *2024 – Now*

Amirkabir University of Technology — *Tehran, Iran*
Bachelor of Science in Computer Engineering — *2018 – 2023*
GPA: 15.35/20

Allameh Tabarabei High School — *Tehran, Iran*
High School Diploma In Mathematics and Physics — *2014 - 2018*
GPA: High School 19.35/20
GPA: Pre-University 17.41/20

Research interests

Computer Vision, Machine Learning, Deep Learning, Data Mining, Software Engineering

Work experience

Fraunhofer IGD — *Jul 2024 - Present*
Research Assistant — *Darmstadt, Germany*

- Member of the Smart Living & Biometric Technologies (SLBT) team
- Led development of High Level Biometric Services (HLBS) system using Node.js, React.js, and OpenCV
- Designed and implemented client-server architecture for biometric data processing and verification
- Developed RESTful APIs and SOAP web services for biometric workflows and device integration
- Optimized system performance for real-time biometric data processing and visualization
- Ensured compliance with BSI Technical Guidelines and implemented XML schemas for service configurations

Takhfifan — *Aug 2022 - Jul 2023*
Software Engineer — *Tehran, Iran*

- Add new features to VIP panel of Takhfifan.
- Fix bugs and issues that have been reported on the panel.
- Improving performance of some low speed features.

IRITCO — *Jul 2020 - Aug 2022*
Software Engineer & Data scientist — *Tehran, Iran*

- Improve the performance of existing software systems and add new features.
- Add developed and tested features for project using Python, Django, HTML, CSS, JavaScript.
- Improving admin panel and support site.
- Deploy projects on servers and handle issues on server side part.
- Improving the speed of managing millions of records and making changes on them.

Teaching experience

Teaching Assistant, Web Programming *Feb 2022 - Jul 2022*

Tehran, Iran

- Designing homeworks for students..
- Answering student's questions.
- Evaluating student's homeworks.

Professor: Parham Alvani

Teaching Assistant, Web Programming *Sep. 2022 – Jan 2023*

Tehran, Iran

- Designing homeworks for students.
- Answering student's questions.
- Evaluating student's homeworks.

Professor: Parham Alvani

Technical skills

Programming Languages	C/C++, Java, Python, Ruby, Go
ML, Deep Learning	Pytorch, Keras, Tensorflow, Numpy, Pandas, Scikit-learn
Web Programming	Flask, Django, HTML/CSS, JavaScript, Reactjs, Nextjs, Node.js, jQuery
Database	MySQL, PostgreSQL, MongoDB, SQLite
Application Development	Android
Operating Systems	Windows, Linux(Ubuntu)
Misc	Docker, Kubernetes, Elastic Search, LaTex, Arduino, Verilog, VHDL

Language proficiencies

Persian	Native
English	IELTS: 7(R: 7.5, L: 7.5, S: 7, W: 6)
German	Limited Working Proficiency (B1)

Honors and Awards

University Entrance Exam	Achieved top 1% place among more than 140,000 applicants of the Nationwide Mathematics University Entrance Exam 2018