



Saeed Saadat

Master's student in Computer Science
University of Bonn, Germany
Software Engineer

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ABOUT ME

I am a Mid-Level Software Engineer focusing on building reliable Backend services, mostly using Python and Java. System Design, Database Design and Secure Software Engineering are my technical strong suits. I'm a proactive team member who loves brainstorming ways to improve both the product and our internal workflows. I'm constantly learning and pushing myself to grow, with the goal of bringing a Senior level of technical depth and mentorship to everything I do.

WORK EXPERIENCE

• PSI Software

Working Student, Software Engineer

Jul 2025 - Present

Düsseldorf, Germany

- Working on an Enterprise multi-modular Java based MES for Metals industry.
- Worked with Java, Maven, Quarkus, PostgreSQL, Liquibase, K8s, AngularJS, Google Cloud and Keycloak.
- Created multiple temporal resampling algorithms for time-series data, resulting in up to 70% faster chart rendering.
- Helped optimize the development experience by discovering hidden functionalities in the tech stack as well as automating repeated parts of the process, resulting in faster development for all members of the team.
- Contributed to company's plans to incorporate AI and Machine Learning into existing tools and offerings, including developing an MCP server and Agents.
- Helped document previously undocumented procedures and architectural decisions.
- Collaborated with security experts on the team to resolve security issues, both in the code base and in the everyday tools used by the team.

• AYOT

Founder, Software Engineer

2021 - 2024

Sharif Innovation Park, Tehran

- Following my passion for entrepreneurship and IoT.
- Recruited and lead a team of 10 professional engineers.
- Co-designed the MVP and the final product's architecture.
- Tech stack: Python, Fast-API, WSGI, PostgreSQL, Redis, K8s, Flutter, Google cloud services, MQTT and Matter.
- Used Test-driven development (100% coverage), a minimal agile methodology, Github project management tools, Github actions.
- Defined use-cases and user-stories, performed risk analysis, managed the backlog and the Kanban board, created complete documentation for the implemented software.
- Picked up numerous soft-skills as a leader, a product owner, and a Software Engineer by taking numerous courses and meeting with experts of the domain.

• Digikala

Software engineer

2022 - 2023

Tehran, Iran

- Responsible for maintaining and implementing new features on the legacy code with over a million lines of code in PHP.
- Tech stack: PHP, MySQL, CQRS architecture, Mono-repo VCS, Jenkins, Docker, Redis and Kafka.
- Started the redesign process, co-designed the new architecture using Golang, a Micro Service architecture, Elasticsearch and MongoDB.
- Maintaining the high-traffic backend server for a service with over 50,000 daily active users.
- Implemented a parallel delivery assignment and tracking service, resulting in 15% faster delivery time!
- Found a problem with the existing delivery estimation service. I took initiative and re-implemented the OSM based delivery estimation service to use ALT instead of static caching, resulting in 10% fewer canceled orders on rainy and snowy days and more accurate vendor suggestion.

• Ostad Kar

Software engineer

2021 - 2022

Tehran, Iran

- Tech stack: Python, Flask, Docker, Gitlab CI/CD, PostgreSQL, Cassandra, Redis and RabbitMQ.
- Responsible for creating various automation and integration services.
- Maintaining the CI-CD process and learning about the DevOps and deployment side of software.

EDUCATION

•University of Bonn <i>M.Sc in Computer Science</i>	<i>Oct. 2024 - Sep. 2027</i> GPA: 1.6
•Sharif University of Technology <i>B.Sc in Computer Engineering</i>	<i>2018 - 2024</i> GPA: 1.5

The number one engineering university in Iran. I chose the 5 years path which included two co-op semesters letting me work full-time alongside my studies. I also took an extra semester to focus on my Startup and some entrepreneurial courses.

TECHNICAL SKILLS

Programming Languages: Python, Java, Kotlin, Go

Frameworks: WSGI, FastAPI, Quarkus, Spring, Flask, Gin, ...

Cloud: Docker, K8s, CI/CD, Micro service architecture, Google Cloud, ...

Database: Relational Databases(MySQL, PostgreSQL), Redis, MongoDB, CassandraDB, Elasticsearch, S3

Project Management: Agile methodologies (Scrum, XP, DAD), TDD, BDD, Requirement engineering, Defining User stories, Use-cases and Diagrams, Risk assessment

Dev Tools: Git, Unix (Linux and Mac), Terminal (Bash/zsh), NeoVim, Jetbrains IDEs, LaTeX, Kanban, Jira, GitHub, GitLab, Gitea, Jenkins

Web Interfaces: REST-API, MCP, gRPC, MQTT, Matter, Thread, WebSockets

Software Security: Secure software design, Zero-trust principles, Encryption, Proper use of security tools

SOFT SKILLS

Taking initiative: When I see potential, I try my best to come up with ideas and take action before being asked.

Team Work: Adaptable, Social and outgoing, Good at leadership and project management

Learning: Self learner, Fast learner, Capable of assisting others through the process

Communication: Fluent speaker, Good communication skills, Engaging presentations through various tools

Attention to Details: Both on the technical and coding level, and on the product level.

Optimization: Always trying to enhance performance by using automation and the right tools

Ideas Man: Good understanding of the product and business, Good at brainstorming sessions

Tech Enthusiast: I understand technology, follow everything tech related and can figure it out fast!

PROFESSIONAL INTERESTS

- Software Engineering
- Automation
- Internet of Things
- Augmented reality
- Cloud Computing
- Computer Networks and Cybersecurity

OTHER INTERESTS AND HOBBIES

IoT passion projects with Arduino, Gym, Soccer, Music (Vocalist), Tech news, Table tennis, Cooking

LANGUAGE PROFICIENCY

•English (C2)	<i>Fluent</i>
•Deutsch (A2.1)	
•Persian	<i>Native language</i>