Mohammad-Ali A'râbi

Senior Software Engineer

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https://containersecurity.dev | https://github.com/aerabi | https://linkedin.com/in/aerabi

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Summary

Senior Software Engineer with over ten years of experience building and securing backend systems with Node.js, TypeScript, Java, and Python. Drives architectural modernization, mentors engineers, and teaches container and software supply-chain security through books, workshops, and international conference talks.

Skills

Architecture and delivery
Microservices, AWS, Git, GitHub Actions, GitLab CI, Helm, CI/CD, Code quality

Developer advocacy and leadership
Mentorship, Public speaking, Workshops, Documentation, Community building

Container and supply-chain security
Docker, Kubernetes, DevSecOps, Software supply-chain security, SBOMs, Attestations

Backend engineering
Node.js, TypeScript, Python, Java, PostgreSQL, MongoDB, MySQL, Next.js, Odoo, C, C++

Professional Experience

Senior Software Engineer | JobRad GmbH
2024-10 - Present | Freiburg, Germany
- Driving architectural modernization and designing new microservices.
- Driving code-quality standardization as a member of the Quality Guild.

Senior Software Engineer | Haufe Akademie
2024-03 - 2024-07 | Freiburg, Germany
- Implemented a Next.js application with frontend and backend components.

Senior Backend Engineer | Jodel
2022-07 - 2024-02 | Berlin, Germany
- Migrated Kubernetes services from bare metal to AWS, reducing on-call alerts by 90%.
- Conducted 30+ cultural and technical interviews as a member of the Engineering Hiring Committee.

Senior Software Engineer | AppTec GmbH
2019-08 - 2022-07 | Freiburg, Germany
- Created a small language with a type system and semantics to express user conditions.

Java Software Engineer | Picnic Supermarkets
2018-07 - 2019-07 | Amsterdam, Netherlands
- Contributed to the cross-product platform in Java 8 and 11; reviewed pull requests and applicant code assignments.

Research Assistant / HiWi | University of Freiburg, Programming Languages Lab
2017-02 - 2018-07 | Freiburg, Germany
- Used Coq to prove properties of programming languages.

Backend Developer | CafeBazaar
2015-08 - 2016-09 | Tehran, Iran
- Initiated keyword extraction and autocomplete modules using Elastic; Dockerized the project and installed GitLab CI.

Research Colleague / Java Developer / Big Data Analyst | Mobin IT Research Center
2013-09 - 2015-09 | Tehran, Iran

Freelance Software Developer | Idea Creation House
2012 - 2015

Education

Master of Science, Computer Science
University of Freiburg | 2016-10 - 2021-06

Master's studies (discontinued), Mathematics
Sharif University of Technology | 2013-09 - 2016-03

Bachelor of Science, Mathematics
Shahid Beheshti University | 2009-09 - 2013-09

Selected Publications

Docker and Kubernetes Security
Okterakt Verlag | 2025

Awards

Most Innovative Project
JobRad GmbH

Best DevOps Book of the Year - Finalist
DevOps Dozen

Docker Community Leader Award
Docker | 2022

Community & Leadership

Chapter Organizer | CNCF
2025 - Present

LFX Mentor | Linux Foundation
2025 - Present

Docker Captain | Docker
2023-03 - Present

Docker Community Leader | Docker
2022 - Present

Snyk Ambassador | Snyk
2022 - Present

Selected Speaking

Beyond SBOMs: The Future of Container Supply Chain Security
WeAreDevelopers World Congress | 2026-07-10

Dockerize Securely: SBOMs + Attestations + Bake
Jfokus | 2026-02-03

For the full list of talks, visit ContainerSecurity.dev/talks.