

Arash Kadkhodaei

SOFTWARE ENGINEER · BACKEND & DISTRIBUTED SYSTEMS

Freiburg, Germany

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Summary

Software Engineer specializing in scalable backend systems and infrastructure automation. Currently developing core backend services for the Galaxy Project at University of Freiburg. Proficient in Python, CI/CD, and cloud-native technologies.

Technical Skills

Core & Backend	Python (Advanced), C/C++, FastAPI, REST APIs, Distributed Systems
Infrastructure	Docker, GitHub Actions (CI/CD), Linux Administration
Data & Tools	PostgreSQL, Redis, Git, OpenAI API, PyTest
Languages	Persian (Native), English (C1 Professional), German (B1 Working)

Experience

University of Freiburg – Galaxy Project

Freiburg, Germany

SOFTWARE ENGINEER

Apr. 2024 – Present

- Develop and scale backend services for Galaxy, a high-throughput scientific computing platform.
- Created EAR Bot: automated workflow for PDF parsing, reviewer assignments, and Slack notifications.
- Built Galaxy Social tools for automated community engagement content generation.
- Integrate AI/ML tools (ChatGPT, WhisperX) into UseGalaxy.eu infrastructure.
- Contribute to galaxy core, planemo, RSEc-Atlas, and training materials.

Fraunhofer IIS

Deggendorf, Germany

SOFTWARE ENGINEER

Feb. 2023 – Feb. 2024

- Developed “Automatic Fast CT Scan” system using Python and ROS for industrial metrology.
- Engineered automated control systems for metrology hardware.

Education

Deggendorf Institute of Technology

Germany

M.ENG. IN MECHATRONIC AND CYBER-PHYSICAL SYSTEMS

2021 – 2024

University of Kashan

Iran

B.SC. IN MECHANICAL ENGINEERING

2016 – 2021