

Arash Kadkhodaei

SOFTWARE ENGINEER · BACKEND & DISTRIBUTED SYSTEMS

Titisee-Neustadt, Germany

□ (+49) 176 2754 4130 | □ arash77.kad@gmail.com | □ kadkhodaei.de | □ arash77 | □ kadarash



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 (C2 Proficient), German (B1 Working)

Experience

University of Freiburg – Galaxy Project

SOFTWARE ENGINEER

Freiburg, Germany

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

SOFTWARE ENGINEER

Deggendorf, Germany

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

M.ENG. IN MECHATRONIC AND CYBER-PHYSICAL SYSTEMS

Germany

2021 – 2024

University of Kashan

B.SC. IN MECHANICAL ENGINEERING

Iran

2016 – 2021