AREF HOSSEINI

Junior Backend / Software Engineer

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Available part-time (20 h/week) now, full-time from July 2027

SUMMARY

Final-year Computer Science student (graduating June 2027) focused on backend engineering with Java, Spring Boot, Python, FastAPI and PostgreSQL. Part-time experience assisting with FastAPI and PostgreSQL REST APIs, and a completed Java software traineeship. Released TraceLite (Spring Boot) and HookLine (FastAPI), both tested with Testcontainers in CI.

TECHNICAL SKILLS

- **Languages:** Java, Python, SQL
- **Backend:** Spring Boot, Spring Data JPA, Spring Security, FastAPI, REST API design, SQLAlchemy
- **Databases:** PostgreSQL, Flyway and Alembic migrations
- **Testing:** JUnit 5, Mockito, AssertJ, Testcontainers, pytest
- **DevOps & Cloud:** Docker, Docker Compose, GitHub Actions (CI), Maven, Git, Linux, AWS (basic)
- **Security:** JWT authentication, role-based access control (RBAC), BCrypt password hashing, input validation

EXPERIENCE

IT & Software Trainee | Istanbul Arel University, Istanbul, Türkiye (Erasmus+ traineeship) *Jul 2026 – Aug 2026*

- Developed and maintained applications using Java, FastAPI and PostgreSQL.
- Tested and debugged applications, identifying and fixing software defects.
- Used Git for version control across development tasks.
- Gained introductory hands-on experience with AWS, JWT authentication and RBAC.

Backend Developer (Part-time) | Sama Tajhiz Vira, Tehran, Iran *Feb 2023 – May 2024*

- Assisted with REST API development using FastAPI and PostgreSQL as part of a backend team.
- Supported Docker-based deployment of services hosted on AWS.
- Used Git and CI/CD workflows in a shared codebase.

PROJECTS

TraceLite — Error-monitoring platform (v0.1.0 released) | *Java 21, Spring Boot 3.5, PostgreSQL, Flyway, React, TypeScript, Docker*

- Built an event-ingestion REST API with request validation, payload size limits and RFC 9457 error responses.
- Grouped repeated exceptions into issues by fingerprint, using PostgreSQL upserts to avoid duplicates under concurrency.
- Designed a PostgreSQL schema with Flyway migrations, constraints and indexes; added per-application API-key authentication.
- 400+ tests (JUnit 5, Mockito, Testcontainers, Vitest) in GitHub Actions CI with a coverage gate; React/TypeScript dashboard to triage issues.

JobTrackr API — Job-application tracking REST API (in progress) | *Java 21, Spring Boot, PostgreSQL, Flyway, Testcontainers*

- CRUD and status-change endpoints with request validation, RFC 9457 error responses, filtering, paging and sorting.
- Status history, SQL GROUP BY statistics and BCrypt user registration; 220+ tests in CI.

HookLine — Webhook delivery service (v1.0.0 released) | *Python, FastAPI, PostgreSQL, SQLAlchemy, Alembic, Docker, pytest*

- REST API with JWT login, rotating refresh tokens, admin/member RBAC and API-key authentication.
- PostgreSQL job queue with retries, HMAC-SHA256 signed deliveries, SSRF checks; 560+ tests, 100% coverage.

EDUCATION

Academic Bachelor's Degree of Natural Sciences in Computer Science *Sep 2024 – Jun 2027 (expected)*

Ventspils University of Applied Sciences, Latvia

- Average grade: 8.5/10
- Relevant courses: Object-Oriented Programming, Data Structures and Algorithms, Database Design and SQL, Software Testing, Cloud Computing

Erasmus+ Exchange, Information Processing Science | University of Oulu, Finland *Aug 2025 – Jun 2026*

- Average grade: 4.42/5

CERTIFICATES & LANGUAGES

- **Certificates:** Python for Everybody series (University of Michigan, Coursera); Object-Oriented Programming in Python (Duke University, Coursera); Production Machine Learning Systems (Google Cloud)
- **Languages:** Persian (native), English (professional working proficiency)