

EMRE CAN KADIRHAN

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EDUCATION

Arizona State University

Bachelors in Computer Science — GPA: 4.0

Tempe, AZ

December 2027

EXPERIENCE

Software Engineer Intern

June 2024 – August 2024

TQueue Software

Istanbul, TURKEY

- Built the initial implementation of 7 RESTful API endpoints in Spring Boot for registration, authentication, profile, booking history, and owner messaging for an early-stage booking/work-order platform serving several local small businesses
- Wrote unit and integration tests using JUnit, increasing test coverage on the customer service module from near zero to roughly 70%

PROJECTS

Golf Handicap Tracker | Java, Spring Boot, PostgreSQL, React, Next.js, TypeScript | [GitHub](#)

- Built a full-stack web app where golfers can track rounds, statistics, and automatically calculate their official handicap
- Implemented the official USGA World Handicap System calculation and verified it with 13 automated tests based on real-life examples
- Implemented secure JWT-based authentication for user registration and login
- Set up an automated testing pipeline using GitHub Actions CI that runs on every code change

Feature Flag & A/B Testing Service | Java, Spring Boot, PostgreSQL, Redis, Docker | [GitHub](#)

- Built a feature flag evaluation engine with priority-based targeting rules and consistent hash-based A/B variant assignment
- Implemented real-time flag updates via Server-Sent Events with automatic Redis cache invalidation, eliminating client-side polling
- Secured all endpoints with stateless JWT authentication via Spring Security filter chain and wrote integration tests using Testcontainers against PostgreSQL and Redis instances

SwingVision – AI Golf Swing Analyzer | Next.js, Python, PostgreSQL, Redis, MediaPipe | [GitHub](#)

- Built a Python worker using OpenCV and MediaPipe to extract pose landmarks and overlay swing skeletons on uploaded golf videos for swing analysis.
- Integrated Redis based async task queue to offload video processing, keeping web response times under 200ms during heavy load
- Implemented role-based access control, supporting separate user and admin dashboard experiences

Rate Limiter Library | Python, FastAPI, Django, Redis | [GitHub](#)

- Built a reusable Python rate-limiting library for FastAPI and Django with a Redis backend, supporting Fixed Window, Sliding Window, and Token Bucket algorithms through route decorators and middleware
- Added configurable rate-limiting policies and automated tests to improve API scalability and prevent request abuse.

TECHNICAL SKILLS

Programming Languages: Java, Python, TypeScript, JavaScript, C++

Frameworks: Spring Boot, Spring, FastAPI, Django, React, Next.js

Databases & Tools: Git/GitHub, Docker, CI/CD, PostgreSQL, MySQL, Redis, SQLAlchemy, Postman, Linux, Celery

Testing: JUnit, PyTest, Testcontainers