

BERKAN TÜRKOĞLU

SOFTWARE ENGINEER

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SUMMARY

Software Engineer with 2 years of experience building production backend services in Python (Django, FastAPI) and cloud infrastructure on AWS (EKS, ECS, RDS). Actively transitioning toward Java / Spring Boot, applying it hands-on across personal projects. AWS-certified, comfortable with cloud deployment and CI/CD workflows.

PROFESSIONAL EXPERIENCE

Cloud Engineer · NovaDSA, Sep 2024 - Present

- Build and deploy production backend services on AWS (EKS, ECS Fargate, RDS) for enterprise client projects, including **AI chatbot** platforms and **data warehousing** solutions.
- Design and maintain CI/CD pipelines with GitHub Actions, GitLab CI, and ArgoCD for automated Docker builds, image pushes to ECR, and rolling deployments to **Kubernetes**.
- Own the CI/CD and GitOps foundation for a multi-chatbot platform on Amazon EKS — **ArgoCD** (App of Apps), Karpenter, IRSA, and External Secrets Operator.

IT Trainee · Hannover Fairs Turkey, May 2024 - Sep 2024

- Windows Server, Active Directory, networking fundamentals.

PROJECTS

Matlı — AI Conversational Analytics Platform · NovaDSA Client Project

- Designed and built the AI chatbot service end-to-end using Django REST API, FastAPI + LangGraph, and a Next.js frontend, integrating Bedrock and OpenSearch for retrieval.
- Deployed all services to **AWS EKS** in a multi-environment (dev/prod) setup with shared infrastructure.

QuitQOS — Habit-Tracking Mobile App · Personal Project

- Designed and built the full backend end-to-end using Java and **Spring Boot**, including domain modeling, REST API design, and schema evolution across 6 **Flyway** migrations.
- Implemented a stateless JWT-based authentication system on top of Firebase Auth, using a custom **Spring Security** filter chain with rotating refresh tokens.

PaceUp — AI-Powered Running Coach (iOS) · Personal Project

- Architected an event-driven **Django** backend with 6 apps and 18+ REST endpoints, using signals to trigger stats, achievements, and notifications from a single workout save.
- Built a CI/CD pipeline with GitHub Actions delivering commit-to-production **deploys in 5–10 minutes** via ECR push and ECS rolling deployments.

EDUCATION

Turkish-German University (Türk-Alman Üniversitesi), 2019 – 2024

- B.Sc. Mechatronic Systems Engineering · GPA: 3.30 / 4.00

SKILLS

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|-------------------------------|---------------------------|----------------------------------|
| • Java, Spring Boot, Security | • Python, Django, FastAPI | • LangGraph, Bedrock, OpenSearch |
| • AWS, Kubernetes | • PostgreSQL, Flyway | • Next.js |
| • Docker, CI/CD, ArgoCD | • REST API design, JWT | • Git, Linux |

CERTIFICATIONS

- AWS Certified Solutions Architect – Professional
- AWS Certified Developer – Associate

LANGUAGES

- English — Professional
- German — Professional