

YİĞİT OKUR

Software Engineer · Cloud & DevOps

Bağcılar, İstanbul | +90 535 573 3873 | yigitokur@ieee.org
linkedin.com/in/yigit-okur-050b5b278 | github.com/TurkishKEBAB

PROFESSIONAL SUMMARY

Third-year Software Engineering student at Işık University seeking a part-time software engineering or Cloud/DevOps role. Contributed to production systems at NETAŞ on an enterprise Java microservices platform (25 commits, 1,550 lines of code and tests across 4 Jira tickets). Independently discovered an undetected v1/v2 timezone mismatch through YAML config and ELK log analysis, documented with 600+ lines of targeted tests. Builds and ships personal projects with CI/CD pipelines, Docker, PostgreSQL, and SonarQube. Eager to work in multi-national, agile software development environments focused on quality and automation.

EDUCATION

Işık University — B.Sc. Software Engineering

2023 – 2027 (Expected)

Ergün Öner-Mehmet Öner Anadolu Lisesi — High School Diploma

2019 – 2023

WORK EXPERIENCE

NETAŞ Telekomünikasyon A.Ş. — Software Engineering Intern

Jan 2026 – Feb 2026

- Independently identified a critical **v1/v2 timezone mismatch** (UTC vs. UTC+3 in YAML configs) causing silent date-boundary errors undetected by the client; proved and documented the bug with **600+ lines of unit/integration tests** and a structured remediation report.
- Contributed to production-grade code on the **KKTC e-Nüfus** enterprise digitization project within a 6-person team (Software Design Manager, 2 Senior Devs, Senior DevOps Engineer); all changes merged via **GitLab MR** and structured code review.
- Navigated a **Spring Cloud Config + Zuul Gateway** microservices architecture with REST/SOAP communication, Redis, RabbitMQ, PostgreSQL, **ElasticSearch**, and **Kibana**.
- Optimized JSF/PrimeFaces autocomplete components: replaced full-table queries with filtered backend lookups and switched from `indexOf` to `startsWith` with Turkish locale collation, yielding **~40% query performance improvement**.
- Implemented date-aware address resolution logic (2021-12-31 administrative boundary threshold) and Vue.js NES certificate duration formatting with Moment.js, full i18n (TR/EN), and null-safety guards across all edge cases.

Arch of Sigma — Project Management Intern (Remote)

Nov 2025 – Jan 2026

- Supported cross-border architecture and engineering projects across Türkiye and the Balkans; coordinated technical documentation, tracked deliverables, and monitored milestones in a multi-national project environment.
- Adapted to an unfamiliar domain by acquiring **SketchUp** and **Rhinoceros 3D** for multidisciplinary design workflows, demonstrating rapid tool acquisition across disciplines.

Işık University – CSE Department — Student Assistant

Feb 2024 – Present

TECHNICAL PROJECTS

IşıkSchedule Platform — TypeScript · FastAPI · Next.js · PostgreSQL · Redis · Docker · PyQt6

2024 – Present

<https://github.com/TurkishKEBAB/isiksched-core> | <https://github.com/TurkishKEBAB/isiksched-web>

- Desktop version serving **~1,000 active users**; web deployment in progress (local, targeting production release within ~30 days).
- Built a constraint-aware scheduling engine with **13 registered algorithms** — including Genetic, Simulated Annealing, Tabu Search, PSO, and Hybrid GA+SA — using backtracking-dominant search with hard constraints (ECTS, conflicts, prerequisites) and preference-based optimization.
- Architected migration from standalone PyQt6 desktop app to a dual-platform product with shared domain logic; web layer features **24 FastAPI routes**, JWT/RBAC authorization, and a **Dockerized multi-service runtime** (Next.js, API, PostgreSQL, Redis, Celery).
- Maintained **86.97% test coverage** with SonarQube Cloud integration (**Quality Gate: Passed**, 1.9% code duplication across 14k lines); targeting 95% coverage before public web release.

Agentic IDE (Thesis Project) — TypeScript · Electron · Monaco · LLMs · RAG

Nov 2025 – Present

Early architectural phase — requirements analysis and architecture diagrams in progress

- Designing a modular AI-native IDE on TypeScript + Electron + Monaco, rejecting a VS Code fork in favor of a ground-up agent-first architecture; core loop: **Observe -> Plan -> Approve -> Apply** with mandatory human-in-the-loop controls and prohibited command enforcement.
- Architecting a hybrid LLM orchestration layer: local models for latency-sensitive tasks, cloud LLMs for complex planning, with privacy-by-design routing to prevent sensitive code from reaching external APIs.
- Establishing CI-backed testing strategy (unit/integration/E2E) and formal requirements baseline before first implementation commit; thesis validation framework co-defined with academic supervisor.

- Ranked **3rd among 700+ projects** in preliminary evaluation; led software development of **anti-jamming telemetry systems** and control algorithms using Python.
- Secured and managed a 200,000€ budget including a **165,000€ TÜBİTAK R&D Grant** and Savronik Defense sponsorship; coordinated cross-functional teams (mechanics, electronics, software).

Automated Web Crawler — Python · Scrapy · FastAPI · PostgreSQL

Aug 2025 – Nov 2025

- Built a high-throughput concurrent scraping system (Scrapy/BS4, multi-threading) with a FastAPI + PostgreSQL backend, strict robots.txt compliance, and automatic retry/fault-tolerance logic — achieving **89.9% successful execution rate**.

Portfolio Platform (Web + Desktop) — FastAPI · React · PostgreSQL · Docker

Jan 2024 – Present

<https://github.com/TurkishKEBAB/Site>

- Multi-platform system: **60+ API endpoints**, JWT/RBAC, 24h GitHub API caching, Supabase asset management, SMTP notifications, and staged CI/CD deployments to Vercel and Railway. SonarQube Cloud: **Quality Gate Passed**, pending public release after security hotspot remediation.

TECHNICAL SKILLS**Cloud & DevOps:** Docker, Kubernetes, GitHub Actions (CI/CD), AWS (EC2, S3), Spring Cloud Config, Zuul Gateway, SonarQube**Observability & Infra:** Elasticsearch, Kibana, Redis, RabbitMQ, PostgreSQL, Celery, Vagrant**Backend:** Java/Spring Boot (Primary), Python/FastAPI, REST APIs, Hibernate/JPA, JSF/PrimeFaces**Architecture:** Microservices, Clean Architecture, JWT/RBAC, Constraint Optimization (13-algorithm scheduling engine)**Testing & Automation:** JUnit, Pytest, SonarQube, CI/CD pipelines, defect tracking (Jira, GitLab), test automation**Frontend:** Vue.js, React, Next.js, JavaScript/TypeScript, TailwindCSS, Electron**Languages:** Java, Python, TypeScript/JavaScript, SQL, C#**AI & Data:** LLMs, Retrieval-Augmented Generation (RAG) — project-level experience**Tooling:** Git/GitLab/GitHub, Maven, Gradle, Linux (Ubuntu), Azure DevOps**LEADERSHIP & COMMUNITY****IEEE Işık Student Branch** — Vice President & Project Coordinator

Nov 2025 – Present

- Orchestrated 35+ technical workshops, hackathons, and industry networking events engaging 1,100+ students university-wide; manages core operations bridging engineering students with tech professionals.

2025 IEEE Signal Processing & Communications Applications (SIU) Conference — Organization Committee Member Nov 2025isikieee.com.tr/siu

- Coordinating venue logistics and technical session infrastructure for 300+ attendees at Turkey's premier IEEE signal processing conference.

IEEEExtreme'24 Programming Camp — Lead Organizer

Jul 2024

isikieee.com.tr/xtreme

- Directed a week-long national programming bootcamp on competitive programming, algorithms, and data structures for 200+ cross-university participants.

CERTIFICATIONS & CONTINUOUS LEARNING

- **Cloud & DevOps:** Linux for Cloud & DevOps Engineers, Master System Design & Software Architecture (Udemy) Complete Networking Fundamentals (CCNA) (Udemy), DevSecOps (Siber Kulüpler Birliği)
- **AI & Engineering:** Complete A.I. & Machine Learning Bootcamp (Miuul), Master the Coding Interview: Data Structures + Algorithms, TechCamp (TalentCoders)
- **Language:** Diction and Effective Public Speaking Training (Başkent Communication Academy), English C1 — Cambridge University & American Culture Institute | Java Programming — C ve Sistem Programcıları Derneği

ACHIEVEMENTS

- **FIRST Robotics Competition (FRC): Houston World Championship Finalist** — Team 7840, EMONER (2019)
- **TÜBİTAK 4009:** Research in Physics, Optics, and CRISPR-Cas9 Technology
- **Communities:** IEEE AEES, IEEE CS, IEEE EMBS, IEEE RAS, IEEE KÖK, Türkiye Teknoloji Takımı, Türkiye Java Community | Volunteer: TEMA Foundation, WWF Türkiye

Interests: Chess, Guitar, Piano, Vocal training, Fitness & Swimming.

REFERENCES

Professional references available upon request from:

- Sevgi Çakıröz Topraksüren - Software Design Manager, NETAŞ Telekomünikasyon A.Ş. (Direct Supervisor)
- Tevfik Furkan Aksu – Senior Software Design Engineer, NETAŞ Telekomünikasyon A.Ş. (Senior Team Member)
- Emre Yeni - Product Owner, Team Lead at Siemens
- Eda Arslaner Yeni - Technology Architecture, Halkbank
- Assistant Professor Dr. Emine Ekin - Head of Computer Engineering at Işık University
- Assistant Professor Dr. Ahmet Feyzi Ateş – Faculty Member at Işık University CSE Dept.
- Assistant Professor Dr. Berke Özenç – Faculty Member at Işık University CSE Dept. (My Advisor)