



Yiğit Okur

Bağcılar/İstanbul/Türkiye

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I am a passionate and detail-oriented **Cloud & DevOps Engineering** student with a strong foundation in **software development** and **systems design**. My experience ranges from **developing automation** and **integration tools** to **leading technical projects** that **bridge hardware** and **software systems**. Through my involvement in the **FIRST Robotics Competition (FRC)**, I gained hands-on experience in **system optimization**, **teamwork under pressure**, and **technical leadership**. Skilled in **Java**, **C++**, and **C#**, and experienced with **Git/GitHub** workflows, I am eager to contribute to **cloud-based infrastructure**, **CI/CD pipelines**, and **scalable system architectures**. I am particularly interested in how companies drive digital transformation through innovative cloud and communication technologies, and I aim to be part of that evolution.

EDUCATION

Bachelor of Software Engineering | Işık University | Istanbul/Şile | 2023 - (Graduation Expected 2027)

- Member of Işık IEEE Student Branch | **Project Coordinator** | **Vice President**
- **Student Assistant** | CSE Department | OOP
- **AdaLab assistant** | The Academic Data Analytics Laboratory

Ergün Öner-Mehmet Öner Anatolian High School | Istanbul/Güngören | 2019 - 2023

- Software & Electronics Department Member **FRC** (First Robotic Competition) | EMONER 7840
- **TÜBİTAK 4009**

ACTIVITIES & PROJECTS

Projects:

- **Schedule Optimizer (Python, Tkinter) | 2024**
 - Designed a **modular, constraint-aware course scheduling system** generating conflict-free timetables across **rooms, programs, and instructors**. Modeled rules for **time clashes, capacity, and workloads**, supporting **batch** and **incremental updates** without **breaking confirmed schedules**.
 - **Implemented intelligent course and section assignment** using **rule-based** and **heuristic methods** respecting prerequisites, co-requisites, and quotas while **balancing fairness, instructor load, and schedule quality**.
 - Built an **optimization layer** combining **greedy** and **local search** with a tunable scoring function penalizing **overlaps, overflows, and poor distributions**. Enabled strategy switching via **configuration profiles**.
 - **Developed robust data ingestion** from **institutional spreadsheets** with **schema validation, anomaly resolution, caching, and reproducible re-runs**.
 - Added **observability** and **explainability** through **structured logs, impact previews, and audit-ready reports**.
 - **Maintained reliability** via **automated tests, typed models, and clear architectural boundaries**; guided refactors through **UML** and **documentation**.
 - Managed migration from a legacy scheduler, ensuring workflow **continuity** and **improved planning speed**.
 - Delivered a Python-based toolkit with GUI/CLI flows, portable configuration, and traceable logs for easy adoption by academic and IT teams.
- **Sarkan UAV — Team & Software Member | 2024 – Present**
 - Led software development and cross-team coordination for the Sarkan UAV platform.
 - Secured TÜBİTAK grant of ₺65,000 (2024) and sponsorship from Savronik Defense Industry; total project budget ₺200,000 (~\$6,000).
 - Supervised two graduation projects focused on anti-jamming communication for UAV telemetry/control.
 - Managed documentation, proposal submissions, timelines, and milestone tracking.
- **IEEEExtreme'24 Camp Organizer — Işık University, Şile Campus | 22 – 26 Jul 2024**
 - Organized a Türkiye-wide programming camp focused on algorithms and data structures, hosted participants from multiple universities.
- **SIU 2025 — Organization Committee Member**
 - Contributing to planning and coordination for the 2025 conference.
- **IEEE Student Branch — Event Organizer | 2023 – Present**
 - Organized 35+ events at Işık University; supported organization, communications, and on-site operations.

Hobbies, Social Activities:

- I'm a fan of poetry, I actively listen to, read poets, and write poets.
- Watching series, (I actively follow new series, and watched all the known as "BEST" series)
- I play guitar and piano; I enjoy performing and creating music inspired by Anatolian Rock.
- I am actively volunteering with WWF & TEMA, supporting animal welfare and environmental protection.
- Enthusiastic about fitness and swimming; maintaining a balanced and active lifestyle.
- Chess, sudoku, crosswords, and other brain games are my go-to activities for sharpening strategic and creative thinking.

Technical, Social Activities:

- IEEE Aerospace and Electronic Systems Society (AESS)
- IEEE Computer Society (CS)
- IEEE Engineering Medicine and Biology Society (EMBS)
- IEEE Robotics and Automation Society (RAS)
- IEEE KÖK
- Türkiye Teknoloji Takımı Member
- Türkiye Java Community Member

TECHNICAL SKILLS

Programming Languages:

- Java, C#, C++, R, Python

Computer Science

- **Software Development Methodologies**
- **Software Design Patterns**
- **Software Architecture**
- **Advanced Programming & OOP**
- Data Structure and Algorithms Design, Analysis
- Databases & JDBC
- **Cloud Computing**
- Logic Design
- Calculus, Discrete Math & Linear Algebra
- **Computer Organization**
- Git/GitHub
- **Microsoft Office**
- Multithreading (threading, queue)
- File I/O & Serialization
- Logging & Error Handling
- **UML Modeling**

Soft Skills

- **Leadership & Team Management:** Led multidisciplinary student teams; set goals, delegated tasks, and delivered milestones.
- **Cross-Functional Collaboration:** Coordinated software, hardware, and operations to integrate and ship working systems.
- **Project Management (Scope–Time–Cost):** Planned sprints, tracked risks, and hit deadlines across parallel projects.
- **Problem Solving & Root-Cause Analysis:** Diagnosed issues with systematic testing and implemented durable fixes.
- **Analytical Thinking & Decision-Making:** Used data, measurements, and requirements to guide design and trade-offs.
- **Clear Technical Communication:** Wrote READMEs, UML, and reports; presented complex topics to mixed audiences.
- **Fast Learning & Adaptability:** Quickly adopted new tools/standards and integrated them into the workflow.

Languages

- **Turkish** (Native)
- **English** (Fluent)
- **German** (Beginner)
- **French** (Beginner)

Certificates

- **TEMA & WWF** Volunteering Certificates
- IEEE Işık University Student Branch Technical Workshops
- AI & Technology Academy – EHS Hackathon 2023
- Miuul Machine Learning Bootcamp
- **DevSecOps**
- TalentCoders TechCamp
- İngilizce Başarı Sertifikası (C1 Amerikan Kültür)
- Programlamaya Giriş (C ve Sistem Programcılar Derneği)
- İngilizce Başarı Sertifikası (Cambridge International Education)

REFERENCES

- Emre Yeni | Product Owner/Team Lead at Siemens: emre.yeni@siemens.com
- Eda Arslaner Yeni, MSc | Technological Architecture - IT Configuration Management @ Halkbank | ISO 22301 BCMS Lead Auditor: eda_arslaner@hotmail.com
- Emine Ekin | Head of Computer Engineering Department at Işık University: emine.ekin@isikun.edu.tr
- Berke Özenç | My advisor at Işık University: berke.ozenc@isikun.edu.tr