

# EĞE ERDOĞAN

BONN, GERMANY

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## Education

### University of Bonn

Master of Science in Computer Science

- **Specialization:** Artificial Intelligence in cybersecurity

Oct. 2023 – Present

Bonn, Germany

### Sabanci University

Bachelor of Science in Electronics Engineering - **CGPA: 3.96/4**

- **Double Major:** Computer Science and Engineering

Sep. 2017 – Jun. 2022

Istanbul, Turkey

## Experience

### KOBIL Systems GmbH

Software Engineer

April. 2022 – Present

Istanbul, Turkey

- Design and implement **REST-based** Microservices using Rust and Kotlin for a production system with **5M+** users
- Deploy and manage microservices in cloud-native environments using **Kubernetes** and **Helm**
- Develop **BDD-style** integration tests and load testing scenarios in **Python**
- Restructured backend codebase, reducing memory usage by **80%** without sacrificing performance
- Contributed to refactoring the codebase from **CRUD** to **CQRS-based** architecture, enhancing maintainability and system response time by **%60**
- Process **millions** of messages daily via **Kafka** in an event-driven architecture
- Integrated **OpenTelemetry** for distributed tracing and observability across microservices, enhancing debugging and system visibility
- Create and maintain **Grafana** dashboards for real-time monitoring of system health and performance metrics
- Craft **Swagger** documentation for RESTful APIs, enhancing integration and streamlining documentation for API consumers
- Acted as a buddy for a newly onboarded junior developer, providing comprehensive guidance on the domain and technologies to ensure a smooth integration into the team

### Sabanci University

Teaching Assistant - EE 414 Multimedia Communication

Oct. 2021 – Feb. 2022

Istanbul, Turkey

- Explained **Computer Network** subjects during the weekly recitation sessions
- Conducted **Wireshark** labs about **HTTP, TCP/UDP, IP, ICMP, Ethernet/ARP** during recitation sessions
- Graded exams, homeworks and term project

### Turkcell

Machine Learning Engineer Intern

Jun. 2021 – Sep. 2021

Istanbul, Turkey

- Conducted exploratory data analysis & visualization with **NumPy, Pandas, Matplotlib, Seaborn**
- Developed classification models to predict Radio Link failures with both **TensorFlow and PyTorch**

### Sabanci University

Learning Assistant - 'CS 201 Introduction to Computing' and 'CS 204 Advanced Programming'

Sep. 2019 - Feb. 2021

Istanbul, Turkey

- Helped students about **advanced object-oriented programming** methods
- Helped subjects of **pointers, linked lists, stacks, queues and debugging** in weekly office hours

## Technical Skills

**Languages / Databases:** Rust, Kotlin, Python, Java, PostgreSQL, ScyllaDB, Redis

**Technologies:** Git, GitLab, Docker, Kubernetes, Helm, Apache Kafka, AWS S3, Grafana

## Leadership / Extracurricular

### VJF Working Camp

Volunteer

Aug. 2019 - Sep. 2019

Berlin, Germany

- Worked with 20 international people to create a sustainable environment for children

### Civil Involvement Projects

Volunteer Student

Feb. 2018 - Jun. 2018

Istanbul, Turkey

- Helped and played with the children with autism by weekly meetings