

# Giray Coskun

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## Education

**Technical University of Munich**  
*Master of Science in Computer Science*

*April 2024 – 2026*  
*Munich, Germany*

**Sabanci University**  
*Bachelor of Science in Computer Science*

*Sept 2017 – June 2023*  
*Istanbul, Turkey*

- With Double Major in Economics and Minor in Math
- GPA: 3.66/4

## Skills

**Languages:** Python, Java, Go, SQL

**Technologies:** AWS (*Associate Solution Architect*), Docker, Linux, Spring, Flask, FastAPI

## Experience

**Software Engineer**  
*RedRose Technology*

*Istanbul, Turkey*  
*Sept 2023 – April 2024*

- Worked on development and deployment of Java ERP applications for more than 200 NGOs.
- Developed automated CI/CD pipelines for application deployments.
- Containerized applications via Docker to ensure portability.
- Worked with Java, Python, Docker, AWS and Linux.

**Cloud Engineer Working Student**  
*Skyloop Cloud*

*Istanbul, Turkey*  
*June 2022 – Oct 2022*

- Consulted projects on AWS Cloud Migration.
- Built data streaming pipelines via AWS Kinesis, S3 and Lambda services.
- Worked with AWS and Python.

**Software Engineer Working Student**  
*Migros E-Commerce*

*Istanbul, Turkey*  
*June 2021 – Dec 2021*

- Developed micro-services in Java with the Spring Framework
- Worked with Java, Docker and AWS.

**Software Engineer Intern**  
*Havelsan*

*Ankara, Turkey*  
*May 2021 – June 2021*

- Implemented UAV mission planning algorithm based on genetic algorithms

## Projects & Publications

### Automated Reasoning API



- Developed micro-service and queue architectures for reasoning queries

### Using Unified Combinatorial Interaction Testing for MC/DC Coverage



- Modeled MC/DC testing criteria as constraint satisfaction problem to minimize number of tests.
- Published in 2022 IEEE International Conference on Software Testing, Verification and Validation

### A Combinatorial Interaction Testing-Based Daily Build Process



- Developed strategies to generate test cases for daily-build Process to obtain test coverage under duration and size constraints.
- Published in Journal of Systems and Software, Volume 190, August 2022, 111353