Emre Eren

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Education

Marmara University   **Maltepe, Istanbul**
Bachelor of Computer Science   Sep 2018 - Sep 2023
GPA 2.7/4.0
- Team leader of Algorithm Community MACSEC (Marmara Computer Science and Engineering Club). Taught several Introduction to Algorithms courses.
- Member of Aerial Robotics team at the MUFE Robotics. Responsible for simulation of Quadcopters.
- I conducted research in the field of Large-Scale Multi-Objective optimization for my thesis work.

Professional Experience

CODEXIST   **Atasehir, Istanbul**
Software Engineer   Feb 2023 - Current
Project - MOBASIS   Feb 2023 - Current
- Experienced **starting a project from zero.** Learned to manage and prioritize tasks with given time. Created **bounded contexts** for more decoupling and understandability.
- Used **Docker Swarm** for deploying multiple docker compose files.
- Used **Java** with **Spring Boot**. Utilized **Apache NiFi** for real time data processing interacting with **RabbitMQ** as message queue, **Cassandra** to persist data and **Elasticsearch** to index the data.

Emlakjet   **Online**
Backend Developer Intern   May 2022 - Feb 2023
- Contributed to **microservice migration** for a high traffic component of a monolith. Played a great role in achieving **~92% test coverage** by utilizing unit tests and integration tests. Helped my team to acquire using **Testcontainers** in integration tests.
- Moved first indexer to **Golang** to take advantage of **goroutines**. Utilized bulk indexing for more performance. These helped us gain **~145%** performance boost (~3.9k doc/min to ~9.6k doc/min).

DogGO   **Online**
Backend Developer Intern   Dec 2021 - Oct 2022
- Developed all backend tasks of Cat Sitting **bounded context** using **Scala**.
- Helped achieve **~23% reduction of running time** for all services tests (from ~26 mins to ~20 mins).
- Structured unit and integration tests. These lead to ~**15% reduction of LoC** on tests without losing reliability (from ~10k to ~8.5k).

Wevent   **Online**
Android Developer   Sep 2019 - Sep 2020
- Created the Android version of the ticket selling application.
- Utilized **Kotlin**, Android Architecture Components and MVVM architecture to create the app.

Achievements

INFINIA Software Hackathon **Techbridge, Ankara**
Cycloduck: A Depth Camera, INFINIA x KargaKarga, First Place June 2023
- As a team of two, we created a depth camera using a distance sensor and two servo motors. The hardware setup involved connecting the components to an Arduino, reading the sensor input and programming the servo motors for wide range movement. Sensor data was processed and visualized using **Python**, incorporating **Gaussian filter** and **Bilinear interpolation** for optimization, allowing fields for sensitivity customization.

Global Day of Coderetreat **Umraniye, Istanbul**
Conway's Game of Life, JUG x Emlakjet Nov 2022
- I have instructed participants to practice **Agile** and **TDD** by coding Conway's Game of Life.

Certification

CLF-C01 AWS Cloud Practitioner **Online**
Amazon Web Services (AWS) Dec 2022
- Credential ID: MERPPPYCYNQ41HSF