ONURCAN ERSEN

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SUMMARY

Experienced Software Engineer with a Computer Engineering degree from Istanbul Technical University. Proven track record in backend and frontend web development, UI/UX design, mobile development, game development, cloud services, and databases.

EDUCATION

Istanbul Technical University, Istanbul, Turkey

June 2024

- BS in Computer Engineering, 3.34/4.00 GPA
- Graduation Project: MetaboliticsDB Store, compare, search, visualize, and associate your metabolomics analyses with diseases.

TECHNICAL SKILLS

- *Computer Languages:* Python (Django, Flask), Java (Spring Boot), JavaScript (Node.js, React, Redux), C/C++, C# (.NET, ASP.NET), TypeScript (Angular)
- Tools: SQLAlchemy, pandas, scikit-learn, Swagger, Postman, Git, Celery, Docker, Eclipse, IntelliJ IDEA, DBeaver
- Skills: Databases (PostgreSQL, MSSQL, Oracle Database, MongoDB, Redis), Cloud Services (Google Cloud Platform, Amazon Web Services), Mobile Development (React Native, Flutter), UI/UX (Figma), Game Development (Unity), DevOps (Jenkins, Kubernetes), Agile/Scrum (Jira), Machine Learning

WORK EXPERIENCE

Havelsan, Candidate Engineer, Istanbul, Turkey

March 2024 - Present

Havelsan is a Turkish defense industry software company.

ITU Bioinformatics Research Group, *Software Developer & Undergraduate Researcher*, Istanbul, Turkey February 2023 – Present ITU Bioinformatics Research Group develops open-source tools for biological data.

- Maintained MetaboliticsDB, a metabolomics analysis web app developed with TypeScript Angular and Python Flask frameworks.
- Improved analysis results by integrating REST services of metabolite databases. Speeded up analyses by nearly 90% with IBM CPLEX solver.
- Developed a periodic task to train and store machine learning models having F1 scores higher than 0.7 on analyses with the Python Celery tool. Deployed the project with Docker.

IBTech, Software Engineer Intern, Kocaeli, Turkey

August 2023 – December 2023

IBTech is a software subsidiary of QNB Finansbank.

- Developed bank card screens with C# .NET framework and services with Java for QNB Finansbank.
- Performed operations on Oracle databases. Prepared bank reports with JasperReports.

Zorlu Holding, Software Engineer Intern, Istanbul, Turkey

July 2023 - August 2023

Zorlu Holding is a Turkish multinational conglomerate.

- Operated database migration of ZITAM, a web app for IT asset management developed with Python Django framework.
- Improved database by migration to PostgreSQL from SQLite by writing a Python script with SQLAlchemy and pandas libraries.

Aselsan, Software Engineer Intern, Ankara, Turkey

August 2022 – September 2022

Aselsan is a Turkish defense electronics company.

- Built in-app support GUI for an aircraft mission planner with Java Swing toolkit and IntellijIDEA. Applied best practices of coding by following design patterns.
- Developed text-to-HTML converter using regular expressions.

Eteration, Software Developer, Istanbul Turkey

October 2022 - January 2023

Eteration is a software company at ITU Technopark.

- Performed as a full-stack web developer in a Scrum team for Viennalife. Participated in Scrum events.
- Developed and tested microservice apps with Oracle databases using Java Spring Boot framework, Eclipse, Swagger, and DBeaver. Built user interfaces with React and Redux libraries.

CERTIFICATIONS

Commencis CloudCamp 2024

January 2024 – February 2024

Attended comprehensive training on AWS infrastructure, S3, EC2, databases, VPC, security audit, Route 53, and DevOps practices.

Eteration Bootcamp 2022

June 2022 – July 2022

Took training on Agile principles, cloud services, microservice architecture, Spring framework, REST services, and React library.

EXTRACURRICULAR ACTIVITIES

ITU ACM Student Chapter, Organization Team Member, Istanbul, Turkey

April 2022 – May 2022

• Arranged speakers for the Bootcamp 2.0 event.

ITU Robotic Search and Rescue Team, Software Team Member, Istanbul, Turkey

April 2022 – August 2022

• Developed a rescue robot controller with the Python Flask framework.

ACHIEVEMENTS

TUBITAK BILGEM Scholarship

June 2023 – August 2023

PUBLICATIONS

M. H. Celik, O. Ersen, T. Saleh, A Dokay, A. Cakmak. "MetaboliticsDB: A Database of Metabolomics Analyses." Forthcoming.