Onurcan Erşen

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Summary

Experienced Software Developer with a Computer Engineering degree from Istanbul Technical University. Proven track record in backend and frontend web development, UI/UX design, mobile application development, game development, cloud services, and databases. Has an advanced level of English.

Skills

Python (Django, Flask, Celery), Java (Spring Boot, Hibernate), JavaScript (Node.js, React, Redux), C# (.NET, ASP.NET), TypeScript (Angular), Databases (PostgreSQL, Oracle, Microsoft SQL Server, SQLite, Redis, MongoDB, DBeaver), Cloud Services (Google Cloud Platform), Mobile Application Development (React Native, Flutter, Android), UI/UX (Figma), Game Development (Unity), DevOps (Jenkins, Docker, Kubernetes, Git), Scrum (Jira), Tools (Swagger, Postman), IDEs (Eclipse, IntelliJ IDEA, Visual Studio)

Experience

ITU Bioinformatics & Databases Lab, *Researcher*, Sariyer, Istanbul, Turkey   February 2023 – Present
- Maintained MetaboliticsDB project, a web-based metabolomics analysis database developed with TypeScript Angular and Python Flask frameworks. Started to receive a TÜBİTAK scholarship for his contributions to the project.
- Developed the backend inside a Docker container. Performed background tasks with Celery and Redis. Prepared documentation for the project.
- Automated the metabolite synonym mapping enhancement process by finding synonyms from external REST APIs for each analysis.

Zorlu Holding, *Software Developer Intern*, Sisli, Istanbul, Turkey   July 2023
- Operated database migration of ZITAM project, a web application for IT asset management developed with Python Django framework.
- Improved database performance of the project by migrating to PostgreSQL from SQLite by writing a Python script utilizing SQLAlchemy and Pandas libraries.
- Managed databases with HeidiSQL. Established a test environment and performed necessary tests.

Eteration, *Software Development Specialist*, Sariyer, Istanbul, Turkey   October 2022 – January 2023
- Performed as a full-stack developer in a Scrum team using Jira and Git. Participated in Scrum events of sprint planning, daily Scrum, sprint retrospective, and sprint review with customers.
- Developed and tested microservice applications interacting with SQL databases using Java Spring Boot framework, Swagger, Eclipse, and DBeaver.
- Participated in application deployment with Kubernetes and Jenkins, and database migration. Built user interfaces with JavaScript React and Redux libraries.

Aselsan, *Software Engineer Intern*, Akyurt, Ankara, Turkey   August 2022 – September 2022
- Built in-app support graphical user interface (GUI) for an aircraft mission planner with Java Swing toolkit and IntelliJ IDEA.
- Developed text-to-HTML converter using regular expressions.
- Applied the best practices of coding by following design patterns when building object-oriented programming (OOP) design.

Eteration, *Software Developer Intern*, Sariyer, Istanbul, Turkey   June 2022 – July 2022
- Attended Bootcamp 2022 on software life cycle, team development techniques, cloud services, microservice-based architecture, Spring framework, RESTful web services, and modern JavaScript frameworks.
- Built WebSocket and REST APIs with Java Spring Boot framework. Stored data with Hibernate object-relational mapping (ORM) tool in a PostgreSQL database.
- Developed user interfaces with the JavaScript React library. Deployed the containerized web application with Docker.

MindOfis, *Frontend Developer Intern*, Tallinn, Harjumaa, Estonia   January 2022 – March 2022
- Built UI/UX web designs with Figma. Implemented Czar Shop landing page web design for e-commerce websites.
- Developed and maintained websites using templates for customers.

Education

Istanbul Technical University, Sariyer, Istanbul, Turkey   September 2019 – February 2024
Bachelor's degree in Computer Engineering, GPA 3.34
Graduation Project: MetaboliticsDB, a web-based metabolomics analysis database developed with TypeScript Angular and Python Flask frameworks