BESIR KASSAB

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Education

Hacettepe University, Bachelor of Science in Computer Science (**Honor Student**) Aug 2017 to Mar 2023

Experience

Software Engineer, Aselsan – Ankara, TR Aug 2024 to present
- Designed and implemented backend for **Spring Boot** side and frontend components for **OSGI** side of the desktop applications.
- **20 microservices** were developed to cover different business areas which I was the part of the **3 people team**.
- **Quick adaptation** was shown to a project nearing its deadline, and the remaining tasks were completed using **Java (mostly versions 1.8 and 17)** before it was presented to the client.

Software Engineer, CoinGecko – Singapore (Remote) Oct 2023 to May 2024
- Expanded available endpoints on the **REST API** product using **AWS ECS**, **AWS Cloudwatch** and **Python Fast API**, to meet the changing requirements of a major client.
- Implemented **dynamic error handling process** on the API side using **FastAPI**.
- Moved some of our tables from **PostgreSQL** to **ClickHouse** database. Following the successful relocation, there was a **50% reduction** in API response time.
- Developed a **data modelling structure** for the **ClickHouse** database, featuring tables with a distinct structure tailored to the platform requirements.

Junior Software Engineer, Zash (Acquired by CoinGecko) – London, UK(Remote) Jul 2022 to Oct 2023
- Created, improved and implemented a **data pipeline** for metadata crawler to cover over **200,000** collections across multiple blockchains. This was accomplished by employing **Selenium**, **Redshift** and **AWS Copilot CLI**.
- **AWS Lambda** and **AWS Serverless Architectures** were employed for the metadata crawler project.
- Designed and implemented Slack Bots projects to improve **internal monitoring** and **alerting systems**, providing **ease of use** and **automatization** of daily tasks using **Redshift**, **PostgreSQL**, **Athena**, **S3**.
- Designed an automated NFT marketplace contract detector for **EVM** chains to achieve full automation of marketplace indexing. The implementation heavily involves the use of **decision trees**.
- Developed Automated DATA QAs predominantly utilizing **Selenium** and **Pandas**. By ensuring data **accuracy** and **reliability** through this method, we provided **live charts** to customers. These charts were followed by **Binance** and **CoinMarketCap** at that time.

Software Engineer (Part Time), Ekinoks – Ankara, TR Oct 2021 to Jun 2022
- Developed and maintained early warning systems on Desktop Applications for defense industry using **Java** mostly.
- Designed and developed a **TCP/UDP Wireshark** packet sender application for use in integration tests using **Java**.

Software Engineer Intern, Ekinoks – Ankara, TR Aug 2021 to Sep 2021
- Successfully built a requirement and test analysis tool, intended for use within the company's task management system.
- **HTML**, **CSS**, and **JavaScript** were utilized for **front-end** development, while **Java Spring-Boot** was employed for the **back-end**.
- After successfully completing an internship, extended an offer for a **part-time Software Engineer** position while continuing my studies at the university.

Projects

Automated Data Quality Checker
- The main structure of this project involves collecting data from **3 different sources** and performing daily comparisons.
- Primarily utilized for the two sources, **Selenium** and **Requests**, with the final source being our **Redshift**.
- The program merges the data into a **Pandas** dataframe and inserts it into a **PostgreSQL** database.
- Deployed the program using **Copilot CLI** to ensure daily functionality, streamlining the data comparison process and enabling consistent insights from the gathered information.

Slack Bots
- With this project, users were able to index marketplaces through specific **Slack** channels, thus **reducing manual workload and time spent**.
- It allows users to label any contract address directly from **Slack**.
- The process begins with adding new contracts to the **PostgreSQL** database and then labeling historical data from **Amazon Redshift**.
- Subsequently, it updates our consumer service through **Amazon ECS**.

Technologies

Languages: Python, Java, SQL

Technologies: Git, AWS, PostgreSQL, HTML, CSS, Swing, FastAPI, Selenium, Pandas, Spring Boot(Entry)