Ali Argun Sayılgan

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EDUCATION

Hacettepe University   June 2023
Computer Science BSc.   *Ankara, Turkey*

- Data Intensive Applications, Advanced Database Management, Network, Computer Vision, Data Structures and Algorithms, Machine Learning. Got some projects on these subjects at my github.

EXPERIENCE

Software Engineer   December 2022 - Present
Aselsan   *Ankara, Turkey*

- Working on a microservice web app, using Spring Boot and React.
- One such task of mine was working on the development of a high-performance log table with React and Java, focused on Elasticsearch's internals. Optimized the query performance to a remarkable extent and allowed us to handle a substantial volume of logs in real time, resulting in faster query execution and seamless data retrieval.

Software Engineer | Part-time   July 2022 − December 2022
Pavza   *Ankara, Turkey*

- Worked on the development of a web app. Used React, TypeScript, Java, Mongo, Docker, MaterialUI and redux.

Bootcamp
Turk Telekom Cloud Computing   *Istanbul, Turkey*

- Participated in a cloud computing bootcamp in which 40 people were selected out of 4000 applications.
- Made a presentation on migrating monolithic apps to microservice architecture. link

PROJECTS

Online Learning Platform   May 2023 - Present

- Developing a question generation/recommendation platform with the primary objective of enhancing concept-based learning by recommending most 'valueable' question for each user. My passion for this project stems from my belief that active learning surpasses traditional online learning methods like Udemy, text books, etc.
- The platform is accessible at stuf24.com. Used technologies are: Spring Boot, AWS EC2, RDS MySQL, GitHub Actions, Next.js, RTK, JWT Authentication, Python, and OpenAI. Additionally, I implemented web scraping techniques to curate question data from various online sources and performed OCR to extract and structure this data.
- I'm building the recommendation system with SBERT, ANNOY and Milvus db. The system intelligently suggests non-similar questions on the same concepts, enabling users to explore different question types within a given subject.
- Furthermore, I'm using Lbl2Vec to classify each question under its corresponding concept. This classification allows for precise organization and easy retrieval of questions, ensuring that learners can efficiently access relevant study materials.

Experimentation | *k8s, ActiveMQ, EKS*

- Developed and deployed a scalable microservice web app using EKS. Implemented monitoring and logging using the ELK Stack (ElasticStack) to ensure high availability and efficient troubleshooting.

Online banking web application | *Next.js, Spring Boot, MySQL*

- In this project, the main focus was to focus on database design and normalization. Yet it's somewhat a functioning banking application that has primitive functionalities. Focused on the database design, isolation levels. GitHub

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, Node.js, C++
Languages: Turkish, English(C1)
Libraries: Mockito, Junit, Webflux, Next.js, React.js, numpy, pandas, PyTorch, sklearn, WebRTC, OpenAI
Environments & tools: AWS (EC2, RDS, S3, EKS, CloudFront), Linux, k8s, MongoDB, PostgreSQL, GitHub Actions, VSCode, Git, IntelliJ, bash scripting

NON-TECH

Chill and **confident** person, I enjoy spending time with my friends and family. Teamworker, open minded
Interests: Professional alpine skier(ex national team), gym, basketball, video editing, tech articles/videos