Ali Argun Sayılgan

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EDUCATION

Hacettepe University   2018 - 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   November 2022 - Present
Aselsan   *Ankara, Turkey*

- Working on a microservice web app. Using Spring Boot, Postgres, Mongo, k8s, React, MobX, Kafka, WebSockets

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

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

Cloud Computing Bootcamp
Turk Telekom Cloud Computing   *Istanbul, Turkey*

- Selected among 40 individuals from a pool of 4000 applicants to participate in the exclusive bootcamp.
- Delivered a comprehensive presentation on the migration of monolithic applications to microservices architecture.

Internships. 1-Turksat, stayed with 2 db admins maintaining e-devlet dbs and infra. 2-YDYazilim, stayed with business and hr people. Researched govermental supports for tech. Done and learned stuff related to microservices and AWS.

PROJECTS

Online Learning Platform   May 2023 - August 2023

- 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. Backend is down at the moment. 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. Is not working great enough. I have stopped active development on this project due to required time and effort to gather data and make further improvements for the app.
- The recommendation system is built 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.

Experimentations | *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: React, Next.js, Mockito, Junit, Jest, SCSS, Webflux, numpy, pandas, PyTorch, sklearn, WebRTC, OpenAI
Environments & tools: AWS (EC2, RDS, S3, EKS, CloudFront), Linux, k8s, MongoDB, PostgreSQL, ElasticSearch, Fluentd, Kafka, GitHub Actions, Milvus DB, VSCode, Git, IntelliJ, Vercel, bash scripting, Figma

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