

Yusuf Unlu

SOFTWARE ARCHITECT

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Summary

Experienced professional with 12 years of expertise in **Java, Python, Linux Bash** scripting, and **JavaScript**, specializing in designing and implementing **CI/CD** pipelines for efficient software delivery and deployment. Skilled in developing software solutions for the **Finance, Airlines, Crypto**, and **Entertainment** industries using **microservice** and **event sourcing** architectures.

Skills

Back-end	Java, Spring, Groovy, Scala, C, C++, Python
Front-end	Javascript, Redux, React, HTML5, JQuery, Knockoutjs, CSS, SASS
DevOps	Docker, Kubernetes, Docker, Terraform, Jenkins, Maven, Gradle, Gitlab Pipeline
Cloud	AWS Lambda, SQS, ECS, ECR, EC2, Fargate, Cognito, Api Gateway, RDS, GKE (Google Kubernetes)
Data	Mysql, Mssql, Postgresql, MongoDB, Sql, Hadoop
Industries	Finance (Bot, Order Management, Crypto), Airlines, Manufacturing and Entertainment

Work Experience

Morgan Stanley via Mitchell Martin

NYC, USA

SENIOR SOFTWARE ENGINEER

April. 2022 - May. 2023

- Collaborated with offshore teams on the development of the award-winning Distributed Real-Time Activity Balance (DRTAB) project
- Implemented transaction open-orders, activity modules, and separated live daily events/nightly bulk events processing using **Java, Spring Boot, Kafka, MS SQL, MongoDB, and Avro**.
- Contributed to collateral and short-positions modules.
- Worked on build optimizations using **Jenkins, Gradle, Python, Docker, and Cloudify**.
- Implemented a blue-green database (Mssql) instances comparator.
- Enhanced an instance health monitoring tool for the SRE team using **Java, Python, Rest, Actuator, and HTML**.
- Created performant SQL scripts for concurrent event saving and balance calculation.

Bitlo

Istanbul, Turkey

LEAD & ARCHITECT SOFTWARE ENGINEER

May. 2021 - April. 2022

- Improved market maker bots and Order Management Services.
- Led the CRM team and implemented it from scratch using **Java, Reactjs, Docker**, and **AWS (EC2, RDS, ECR)**.
- Managed the setup and configuration of **Solana** and **Dogecoin** nodes for blockchain integration.
- Maintained and supported the main project in terms of DevOps, utilizing **Gitlab Pipeline, Terraform**, and **AWS**.

Dealroom Events

Remote - Espoo, Finland

SENIOR SOFTWARE DEVELOPER

Sep. 2020 - May. 2021

- Backend development and CI/CD for online conference and eventing system using **Java, Firebase and AWS** (Lambda, Kinesis, SQS, SNS, S3, DynamoDB, CodePipeline, CloudFront, CloudWatch, Cognito, API Gateway).
- Built "capture-encode-publish" project from scratch for running meetings using **FFMPEG, Bash, Docker, Videojs, RTMP** and **AWS** (ECS, Fargate, ECR, EC2 etc).
- Used **Groovy** scripts with **AWS Java SDK** for **CI/CD** and testing. Employed **CloudFormation, Terraform**, and **AWS** services for infrastructure provisioning.

Artiwise

Istanbul, Turkey

SEARCH SYSTEM DEVELOPER

Mar. 2020 - Sep. 2020

- Developed a **Java/Spring**-based project that integrated with crawler services to retrieve data and processed it for further analysis.
- Implemented data processing logic to extract relevant information and apply customer filters using **Java, Hibernate** and **Spring**.
- Integrated with **NLP** (Natural Language Processing) services to analyze and extract semantics from the processed data.
- Utilized **PostgreSQL** and **Redis** for data management.
- Implemented **Kafka** for data streaming and reliable message passing between components.
- Utilized the **ELK** (**Elasticsearch, Logstash, Kibana**) stack for log management and monitoring.
- Containerized the application using **Docker** and deployed it using **Kubernetes (K8s)** for easy deployment, scalability, and efficient management.

Mobven

Istanbul, Turkey

SENIOR SOFTWARE DEVELOPER

Apr. 2018 - Mar. 2020

- Project 1: Momentum Cloud Mobile Test Automation System Developed the Momentum Cloud Mobile Test Automation System using **Spring Boot**, **PostgreSQL**, and **ReactJS**. Conducted comprehensive testing on devices using **Appium** and adb scripts. Implemented video streaming of mobile device screens utilizing **Rtmp**, **Ffmpeg**, **Actionscript**, and **Nginx**.
- Project 2: Mobven Mobile Payment MVP Contributed to the development of the Mobven Mobile Payment Minimum Viable Product (MVP). Utilized **Spring**, **PostgreSQL**, **Android**, and various hashing and encryption algorithms for data over sound functionality.
- Worked as a consultant developer and participated in the development of the turkishairlines.com website. Leveraged **Spring**, **KnockoutJS**, and **CSS** for the implementation of various website features.

Bein Media

Istanbul, Turkey

SOFTWARE ENGINEER

Apr. 2016 - Mar. 2018

- Utilized **Spring Boot**, **Android**, **Java**, **Sqlite**, **Chromecast**, **HLS**, **Widevine**, **Fairplay**, **Mpeg-dash**, and **DRM** technologies in the development of the IRIS Mobile CRM application, which comprised 185 different screens.
- Contributed to the **Android** and middleware development of the IRIS Mobile CRM application, ensuring smooth communication between the frontend and backend components.
- Participated in the **Android** development of Digiturk Play, a streaming platform for live and on-demand content.

Vestel Electronics

Manisa, Turkey

C,C++ DEVELOPER

Sep. 2011 - Nov. 2014

- Developed cross-platform applications on Linux kernel for embedded DVB devices using **C** and **C++**.
- Improved nightly and commit builds using **Python** and **Bash** scripts.
- Developed and integrated drivers for **Android** TV with Novatek platform engineers.
- Possess excellent understanding of **Linux** OS and layered architecture.

Education

City University of New York, CSI

NY, USA

MS IN COMPUTER SCIENCE

Jan. 2022 - May. 2023

- 3.80 GPA

Ege University

Izmir, Turkey

MS IN COMPUTER SCIENCE

Sep. 2013 - Nov. 2014

- Not completed

Ege University

Izmir, Turkey

BS IN EE ENG.

Sep. 2006 - Jan. 2011

- 1.5 years part-time working experience