

# 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

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

## Bein Media

Istanbul, Turkey

### MIDDLEWARE AND ANDROID DEVELOPER

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

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### 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