

Ahmad Zahabi

Senior Software Engineer

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OBJECTIVE

A self-motivated software engineer with over 8 years of experience in implementing advanced technology and business solutions in public and private industries. Demonstrates strong analytical and problem-solving skills and the ability to follow through with projects from inception to completion, skilled in multiple technologies like Java, NodeJs, Python and much more.

PROFESSIONAL EXPERIENCE

TELECEL AI - BEIRUT, LEBANON

SENIOR SOFTWARE ENGINEER

JULY 2024- Present

- Architected and delivered distributed, microservice-based platforms using Java and Spring Boot, supporting high-throughput and low-latency workloads.
- Designed event-driven systems with Apache Pulsar and Redis, handling thousands of messages per second with controlled TPS and back-pressure.
- Built and optimized high-performance REST APIs and operator integrations (REST, XML-RPC, SOAP, sockets) with strong reliability and resiliency guarantees.
- Engineered concurrent and asynchronous processing pipelines, improving throughput and reducing processing time under peak load.
- Designed and tuned PostgreSQL and MongoDB data models and queries to support large-scale transactional and real-time use cases.

BLUE.AI - BEIRUT, LEBANON

SENIOR SOFTWARE ENGINEER

JANUARY 2022- JUNE 2024

- Led the design and delivery of an Omnichannel communication platform, enabling seamless integration with multiple chat channels including WhatsApp and Facebook Messenger.
- Managed and guided a team of 4 engineers, overseeing the architecture, development, and maintenance of a robust campaign management system that supports creation, scheduling, and performance analysis of multi-channel marketing campaigns.
- Actively mentored junior engineers through code reviews, technical guidance, and knowledge-sharing sessions, promoting best practices and continuous learning.
- Worked closely with Product Management to define, refine, and prioritize features, ensuring alignment with customer requirements and business goals.
- Introduced and maintained automated testing using JUnit, significantly reducing manual testing efforts and improving overall system reliability and code quality.
- Built and enhanced NLP-driven chatbots and machine learning components using Python libraries such as NLTK, NumPy, Pandas, scikit-learn, and Matplotlib.
- Hands-on experience with Java (Spring Boot), JavaScript (NestJS), and Python (Flask), along with MongoDB, Apache Kafka, Apache Pulsar, gRPC, Socket.IO, and OpenID Connect for building scalable, real-time, and secure distributed systems.

MONTY MOBILE - BEIRUT, LEBANON

SENIOR BACKEND JAVA DEVELOPER

JULY 2020 – DECEMBER 2021

- Developed and enhanced VAS (Value-Added Services) for telecom operators using SIP and Asterisk, supporting high-availability voice services and handling thousands of concurrent sessions.
- Designed and implemented backend services using Java and Spring Boot, contributing to a microservices-based architecture that improved scalability, fault isolation, and deployment frequency.
- Built and optimized data-intensive services using PostgreSQL, MyBatis, Redis, and RabbitMQ, reducing average response times and improving system throughput under peak load.
- Executed performance and load testing using Apache JMeter and Artillery, identifying bottlenecks and improving system performance under stress scenarios.
- Implemented OAuth 2.0-based authentication and authorization with Spring Security, securing APIs used by multiple internal and external services.
- Contributed to system stability and availability by applying caching, asynchronous messaging, and resilience patterns, supporting 24/7 telecom-grade systems.

VIANEOS - BEIRUT, LEBANON**BACKEND DEVELOPER****AUGUST 2018 –JUNE 2020**

- Engineered a real-time messaging and calling platform (WhatsApp-like) using XMPP for instant messaging and WebRTC for audio/video calls, supporting real-time, low-latency communication.
- Designed and developed AI-driven chatbot systems using NLU technologies (Rasa) for intent classification and entity extraction, improving automation and self-service workflows.
- Architected and implemented a recommender engine for an IPTV platform using Jaccard similarity and collaborative filtering, increasing content relevance and user engagement.
- Designed and built an ad insertion platform for IPTV systems, enabling dynamic and targeted advertising delivery.
- Delivered digital signage solutions for content scheduling, distribution, and playback across multiple endpoints.
- Developed automated testing tools to improve test coverage, reduce regression defects, and accelerate release cycles.
- Built systems for audio/video recording, transcoding, and streaming, optimizing performance and reliability.
- Containerized applications using Docker, enabling consistent deployments and improved scalability across environments.
- Worked extensively on Linux-based systems, applying load balancing and performance optimization techniques.
- Designed and developed backend systems using Java (Spring Boot), Node.js (Express.js), PHP (Laravel) with MySQL and MongoDB.
- Implemented client-side web applications using HTML, CSS, JavaScript, and Angular, integrating seamlessly with backend APIs.
- Demonstrated strong expertise in data modeling, API design, and database architecture (relational and NoSQL).

DYNAMIX - BEIRUT, LEBANON**PHP DEVELOPER****JANUARY 2018 – JULY 2018**

- Worked on a video assistant for service/products providers using Php, Android and IOS.
- Design and develop a responsive web application for the backoffice users to configure the stores
- Develop APIs for mobile application
- Design and Programming Experience in Php Technologies (yii2 framework, Databases...), MySQL, Android.
- Software Development Process (requirements, design, implementation, review and testing)

EDUCATION

MASTER IN SOFTWARE ENGINEERING
LEBANESE UNIVERSITY**BEIRUT, Lebanon**
2016-2017**BACHELOR IN COMPUTER SCIENCE**
LEBANESE UNIVERSITY**BEIRUT, LEBANON**
2013-2016**KEY SKILLS**

- Applications: IntelliJIDEA, PyCharm, Visual Studio Code, Jupyter, Android Studio, Adobe Photoshop, AutoCAD 2D & 3D, GIS (ArcMap, ArcCatalog), Arduino.
- Programming Languages And Technologies: JAVA, NodeJs, C#, Python, PHP, CSS3, HTML5, JQuery, AJAX, JavaScript, Spring Boot, Flask, NestJs, Laravel, YII2, Junit, Postgresql, Mysql, Mongoddb, MyBatis, Numpy, Pandas, Sklearn, matplotlib, OAuth2, Keycloak, Redis, webSocket, Apache Kafka, Apache Pulsar, RabbitMq, gRPC.
- Operating Systems: Windows, MacOS, Linux.
- Languages: very good in English and Arabic, With Good knowledge of spoken and written French.