

AMMAR KESSEIBI

Junior Software Engineer | C#, Python, React Native | API Development, Firebase, Problem-Solving

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SUMMARY

Junior software engineer with 1 year of experience in designing, developing, and implementing software applications. Utilize C#, Python, JavaScript and TypeScript to write scalable, secure code with a knack for problem-solving.

KEY ACHIEVEMENTS



Software Efficiency Boost

Increased software efficiency by 20% through code optimization on 15 projects.



Loading Time Reduction

Reduced application loading time by 40% across six platforms using React Native.



Project Completion Leadership

Managed implementation of over 50 tasks, enhancing product features by 30%.



Platform Uptime Improvement

Enhanced platform uptime by 15% through robust backend solutions using AWS services.

EXPERIENCE

02/2024 - Present

San Francisco, CA

Junior Software Engineer, Full-time

Superfabs LLC

Superfabs LLC is a tech-driven marketplace empowering small businesses to sell products and services through a seamless mobile and web platform.

- Spearheaded the end-to-end development of the company's flagship mobile application, transforming a product idea into a fully functional solution.
- Built both front-end and back-end features using React Native (Expo managed workflow) and Firebase services.
- Integrated Firebase modules including Authentication, Cloud Functions, Firestore, and Cloud Storage.
- Developed robust REST APIs using **Node.js**, **Express**, and **Firebase Cloud Functions** to ensure scalability and performance.
- Implemented **Algolia** for fast and efficient in-app search functionality.
- Integrated **Stripe** for secure, seamless payment processing.
- Designed and implemented real-time chat functionality using **WebSockets** and **Socket.IO**, supporting text, images, video, and file sharing.
- Currently building the company's web platform using **React**, **React-Admin**, and **GraphQL** for a fully responsive and scalable admin experience.
- Solely responsible for organizing the development process and driving all technical decisions.

05/2024 - 12/2024

Edmonds, WA

Software Engineer I, Part-time

QuantumverseAi

Assisted in the design and development of software applications

- Bringing a comprehensive skill set and dedication to excellence to the role of Software Engineer I. Proficient in .Net Maui, C#, Langchain, Bedrock, OpenCV, Google Colab, and Jupyter Notebook. Experience includes expertise in predictive modeling techniques, ensuring robust and innovative solutions in line with industry best practices.
- Contributed to the development of efficiency-enhancing measures for QuantumVerseAi's platforms.

EXPERIENCE

- 11/2023 - 04/2024

Edmonds, WA

Software Engineer Intern

QuantumverseAi

Assisted in the design and development of software applications

- Contributed to various software projects at QuantumVerseAi, completing over 40 assigned tasks. Responsibilities included leveraging a diverse set of technologies such as Lambda Functions, Git, Github, Step Functions, DynamoDB, APIs, React.js, and Blazor Apps. Demonstrated proficiency in software development and project execution within a dynamic team environment.
- 01/2024 - 05/2024

Bothell, WA

Code Mentor, Part-time

Mighty Coders

Facilitate online and in-school programming sessions.

- instructing students in languages such as JavaScript, HTML, CSS, and Scratch.
 - Engaging in the development of a comprehensive and effective curriculum tailored to meet the educational needs of the students.
- 08/2022 - 04/2023

Hawalli, Kuwait

Product Manager

La Casa International Co

Managing and improving the company's platform.

- Overseeing the development and improvement of La Casa's platforms, collaborating with engineers, designers, and other stakeholders to ensure the platforms meet user needs and business objectives.
 - Supervising the company's website "gglemoph.com" and the mobile application "Lemon App"
 - designing and implementing online advertisements for products and services offered by the company.

EDUCATION

- 2016 - 2018

HIGH SCHOOL CERTIFICATE

KHALID BIN SAID HIGH SCHOOL

GPA 98.6 / 100
- 2018 - 2024

Bachelor's in Computer Engineering

Kuwait University

GPA 3.0 / 4.0

LANGUAGES

Arabic

Native

English

Proficient

SKILLS AND TECHNOLOGIES

React native (expo managed flow)	GraphQL	React.js	React-admin	Firebase services	AWS services
Lambda Functions	Step Functions	DynamoDB	Git	Github	Figma
Blazor Apps	C#				
.Net Maui	Unit Tests	OpenCV	Bedrock	LangChain	Express.js
Solo Development Leadership					
Payment Integration (Stripe API)	Search Integration (Algolia API)				

PROJECTS

CALENDER

- Developed a MATLAB-based calendar program to calculate days for the period between 1600 and 2100.

SMART-HIRE

- Led a project aiding job seekers by facilitating CV creation, skill development through courses, and job filtering.

Pharmacy Database Management System (DBMS)

- Led the development of a Pharmacy Database Management System, utilizing Python's Tkinter library for the user interface design. Integrated the user interface with an SQL database to ensure seamless data management. Implemented dual interfaces, including a user interface and an administrative interface, to cater to different user roles and functionalities.

Chat Room Application

- Created a Java-based chat room application that enables real-time communication among multiple users via a central server. Explored network programming, multithreading, and GUI development principles to implement concurrent client connections and intuitive messaging interfaces.

User Authentication Systems Development

- Designed and developed user authentication systems employing both server-side and client-side technologies. Leveraging AWS Lambda, DynamoDB, React.js, and Axios, these systems enable secure login functionality for users. The serverless API, implemented with AWS Lambda and DynamoDB integration, handles user authentication on the server-side, while the React.js frontend provides a seamless and intuitive interface for user interaction. These solutions prioritize security, efficiency, and user experience, ensuring smooth authentication processes for enhanced system usability.

Feedback Analysis Mobile App

- Developed a mobile application for feedback analysis using Microsoft's MAUI framework and AWS services. This C# application integrates with AWS Lambda functions to translate customer feedback into English and perform sentiment analysis. Leveraging HttpClient for API communication, the app dynamically displays the translated text and sentiment analysis results. Users can submit feedback through the intuitive interface and receive real-time analysis feedback, enhancing customer feedback management capabilities on mobile devices.

Feedback Translation and Sentiment Analysis Tool

- Developed a React-based feedback translation and sentiment analysis tool, enabling real-time translation and sentiment analysis of customer feedback. Leveraging AWS Lambda functions and APIs, the tool dynamically translates feedback text into English and conducts sentiment analysis to determine sentiment polarity. The user-friendly interface allows users to input feedback and instantly view translated text and sentiment analysis results. This tool enhances customer feedback analysis capabilities, facilitating data-driven decision-making and improving customer satisfaction strategies.

Web Scraping Article Content Extractor

- Developed a web scraping tool using Python's newspaper library for extracting article content from URLs. The AWS Lambda function processes incoming events containing article URLs, downloads the articles, and extracts the main text content. Utilizing regular expressions, the function removes HTML tags and class names, ensuring clean and readable text output. This tool enhances content extraction capabilities for various applications such as data analysis, text summarization, and content aggregation.

LinkedIn Jobs Scraper with DynamoDB Integration

- Implemented a web scraper using Scrapy to extract job listings from LinkedIn. The scraper, named LinkedJobsSpider, retrieves job details such as title, company, location, and listing date from LinkedIn's job search API. Utilizing a DynamoDB table, the LinkedInJobs class encapsulates methods for adding job listings to the database. Each job listing is processed and added to the DynamoDB table for further analysis or retrieval. This integration enhances job data management and analysis capabilities, facilitating comprehensive insights into LinkedIn job listings.

PROJECTS

Streamlit Web Application Development for Soccer Analytics

- Spearheaded the development of a Streamlit web application designed for comprehensive soccer analytics, integrating advanced features such as ball tracking, player speed and keypoints detection, and real-time player and goalkeeper identification using YOLOv5 object detection. Implemented an interactive tactical map showcasing players' movements and the ball trajectory, providing insightful visualizations for tactical analysis.

Vehicle Speed Detection System

- Developed a system for vehicle speed detection and tracking utilizing computer vision techniques and NVIDIA GPU acceleration. The system employs YOLOv5 for vehicle detection within video footage, enabling accurate identification and tracking. Utilized perspective transformation to map vehicle movements onto a designated region of interest (ROI), facilitating precise calculation of vehicle speeds. Leveraged Supervision and Ultralytics libraries for video processing and annotation, ensuring efficient execution and analysis of vehicle motion. This project demonstrates proficiency in GPU-accelerated analytics and deep learning for traffic monitoring and analysis.

CERTIFICATION

React & TypeScript - The Practical Guide

udemy (Maximilian Schwarzmüller)

Cyber Security

Edraak Platform (2023)

System Administration I (RH124)

RedHat (2023)

ReactNative-ThePractical Guide [2024]

udemy (Maximilian Schwarzmüller)

NSE(1) Network Security Associate

Fortinet (2023)

System Administration II (RH134)

RedHat (2023)

CCNAV7: Introduction to Networks

Cisco Networking Academy (2022)

NSE(2) Network Security Associate

Fortinet (2023)