SUHAIB JBARA

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EDUCATION

American University of Beirut (AUB) | Class of 2024
B.Sc. Computer Science | GPA: 3.69/4.0
- USAID Higher Education Scholarship (Full Ride Scholarship)
- Dean's Honor List – Fall 2023 – Fall 2024

Key Courses: Data Structures and Algorithm | Computer Architecture | Mobile Development | Functional Programming | Database Programming | Software Engineering | Data Science

Carnegie Mellon University in Qatar (CMUQ)
Exchange semester (Spring 2024):
Key Courses: Machine Learning | Cryptography | Application Design and Development

EXPERIENCE

Pronto Summer Internship Program | Summer 2024
- Developed new and improved features for a mobile app using React Native, resulting in a smoother user experience.
- Implemented fuzzy search algorithms, enhancing search accuracy and speed for product searches.
- Ensured data consistency and security with robust form validations during signups and profile updates.
- Added dynamic capabilities by implementing popular search trends and similar product recommendations.
- Increased first-time customer engagement by launching a 10% gift incentive on initial orders.

Aligator Summer Internship | Summer 2024
- Built and optimized backend features using JavaScript, TypeScript, and Node.js, improving overall app performance.
- Integrated external APIs to fetch and display user reviews, enhancing app content.
- Cleaned and filtered complex JSON data, ensuring smoother data processing and usability.
- Optimized database queries, improving performance by 50%, reducing latency and increasing efficiency.

Aligator — Full-Time Software Engineer | Remote | Jan 2025 – Aug 2025
- Built internal TypeScript libraries using Nx to streamline shared functionality across services.
- Implemented daily newsletter delivery using SendGrid and dynamic templates to boost user experience.
- Developed a threshold-based user alerts system for real-time monitoring and notifications.
- Integrated Grafana Cloud for internal observability, improving system monitoring and incident response.
- Created and deployed the company's landing page, contributing to branding and outreach efforts.
- Engineered tools for Reddit data scraping and news article reach analysis to support content strategy.

SKILLS

- Programming Languages: Java, Kotlin, Python, JavaScript, TypeScript, Ruby, SQL, Bash, C/C++, SML, HTML, CSS, R
- Firebase
- Mobile Development
- Machine Learning and data science
- Operating System: Linux (Ubuntu)
- Frameworks: Spring Boot, Fast API, Rails, React, React native, node.js
- Build Automation Tools: Maven, Gradle, Nx
- Testing: Unit Testing, Mock Testing, Integration Testing
- Version Control: Git
- Observability tools: Grafana Cloud

PROJECTS

Qatar Traffic Prediction System (QTPS) | Web UI and Machine Learning Model:

- A web application that predicts traffic on a specific road in Qatar based on a machine learning model
- Data preperation, visualization, cleaning, and feature engineering to make the data ready for training the model
- Iterating various machine learning algorithms to find the best and most accurate model
- Integrated TomTom map in the React UI
- Backend for handling the communication between the UI and the model

EduMate | Educational Mobile App:

- Contributed to the development of an Android app designed to simplify students' lives.
- Using AI to provide students with test questions from their notes which helps in exam preparation.
- Developed a friendly interface using jetpack compose and xml
- Server side development using Fast API and sqlite for fast and easy development
- Insured the app security by using JWT authentication

Coursis | Course Planning Website

- Designed and developed a user-friendly course registration platform for students.
- Built an interactive frontend using React, ensuring an intuitive user experience.
- Developed a robust backend with Spring Boot to manage course data and user interactions.
- Implemented secure authentication and authorization using JWT.
- Deployed the application on Railway for seamless accessibility and scalability.

Gotham City Police Department | Web App

- Built a website that shows the information about GC Police Department
- Used MVC design pattern to sturcture the app
- Server side development using Ruby on Rails
- Interface using Embeded Ruby, and React
- Insured app security using authentication and authorization
- Test driven development and model testing

EXTRACURRICULAR ACTIVITIES

Community Based Internship (Teacher) | Summer 2023

- Collaborated with UNHCR and Association Nabad for Development on a literacy and numeracy program for refugee students.
- Gamifiying learning experience for refugees who never joined school in order to help them gain basic survival skills in education

IEEE Student Branch at AUB (Webmaster):

- Responsible for maintaining the IEEE AUB branch website, ensuring it is updated with the latest events.

Computer Science Student Society (Member at Large):

- Assisted in organizing programming crash courses, workshops, hackathons, and talks for new computer science students.

Completed over 100+ hours of volunteering.

- INZAJ, AIESEC, OSUN, Glimpse of Hope and other NGOs nationally and internationally