Ahmed Almoamen

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EXPERIENCE

Marketing Intern, IAV Automotive Engineering

Northville, MI | March 2023 - October 2023

- Update and enhance previous work documents and presentations to ensure accuracy and alignment with current marketing strategies.
- Conduct research and develop marketing techniques and documentation in various formats such as PowerPoint and Excel.
- Manage the company's LinkedIn page by creating and posting engaging content to increase engagement and reach.
- Monitor and analyze market trends and competition to develop effective marketing strategies.

Data Entry Analyst, Pet Care Clinic

Lincoln Park, MI | September 2018 - November 2020

- Managed customer and employee records by sorting, reviewing, and organizing data daily.
- Extracted and analyzed data to create monthly reports for senior leadership.
- Investigated and organized medication types and amounts in storage using Excel.
- Generated comprehensive medication lists to enhance operations efficiency.

PROJECTS

WYO (While You're Out Services) Mobile Application

- Developed a **cross-platform mobile application** to provide home assistance services, targeting the elderly, busy professionals, and individuals requiring aid.
- Engineered with **React Native**, enabling seamless functionality on both **iOS** and **Android** devices.
- Integrated **AWS** for robust cloud-based operations and **Expo CLI** for efficient project setup.
- Implemented features allowing clients to sign up, request services, make payments, and servicers to provide services, manage orders, and handle payments.
- Incorporated multilingual support, offering English, Arabic, and Spanish, with manual translations across 20+ screens.
- Performed extensive backend and infrastructure work, configuring **AWS** services for reliable **cloud functionality**.
- Conducted **UX** research, implementing interface improvements based on user feedback and documented all enhancements for future development.
- Utilized **Expo CLI** for rapid prototyping and iteration, significantly reducing development time and facilitating live updates.
- Crafted comprehensive documentation including a **Software Requirements Specification (SRS)**, S**oftware Quality Assurance (SQA) plan**, and a **Risk Management, Mitigation, and Monitoring (RMMM) plan** to guide future development and maintenance.
- Integrated secure payment processing systems using **Stripe API**, enabling smooth and safe transactions within the app.

Multi-Threaded Crypto Trading Server

- Devised a multithreaded **server/client architecture** using **Python3**, enabling simultaneous tracking of user inputs and server responses.
- Utilized **TCP sockets** to power a robust online Cryptocurrency Trading Application capable of managing multiple client interactions concurrently.
- Empowered users with a comprehensive suite of commands including login, buying/selling cryptocurrency, listing options, depositing funds, among others.
- Implemented multithreading without the use of third-party libraries and leveraged **SQLite** for efficient record management.

Web-Based Snake Game

- **Architected** and implemented a sophisticated iteration of the classic Snake game, utilizing **JavaScript** and **Node.js** for seamless gameplay and real-time score updates.
- Designed and managed a **MySQL** database integration for robust high-score **tracking**, providing a competitive edge to the gaming experience.
- Employed advanced web technologies to create i**nteractive game features**, resulting in increased user engagement and retention.

Financial Account Manager

- Designed and developed a program in **C++** enabling the creation and management of a balance history for multiple users.
- Programmed functionality to read and write to a **random-access file** containing and updating sensitive data of up to 101 records.
- Implemented multiple layers of **user input validation** to ensure high quality data entry. Developed an **algorithm** which increased data input accuracy by 90%.

Android Weather App

- Developed an **Android** app with **Kotlin** that uses the **OpenWeatherMap API** to demonstrate real-time weather conditions and data.
- Tested the app using Android emulators in **Android Studio**, ensuring compatibility with different device configurations and screen sizes.
- Implemented a **user-friendly** search feature that allows users to quickly update the app with weather information for their desired location.

EDUCATION

Bachelor of Science in Computer Science | University of Michigan - Dearborn | Dearborn, MI | 2023

SKILLS

C/C++, HTML/CSS, JavaScript, Python, SQLite, Node, React Native, Microsoft Office, Assembly Language, Windows 10/11, Linux, Java, Scene Builder, TCP Servers, VS Code, Git, Kotlin, Android Studio, Agile Development, Data Structures, Debugging, Unit Testing, Software Documentation, Expo CLI, AWS Cloud Services, MongoDB, PHP