

Rene Antoun

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EDUCATION

San Francisco State University San Francisco, CA
Bachelor of Science in Computer Science | GPA: 3.7 05/2024

Relevant Coursework: Full-stack software Engineering, Database Management in MySQL, Data Structures, Statistical Analysis, MIPS programming, Web Development, Machine Structures, Computer organization, Computer networks, Operating Systems.

Certificates: Object Oriented Programming In Java, UC San Diego (Coursera) / IBM AI Developer Professional Certificate (Coursera)

WORK EXPERIENCE

Ohmic Technologies (Startup) Montreal, QC
Software Intern: Full-Stack Developer 05/2024-11/2024

- Built a portal website using Vue.js and Firebase enabling users to sign up, log in to view personalized data, trends and history.
- Developed a middleware system using Python, HTTPS and WebSockets to verify user credentials before data retrieval.
- Enhanced the backend's UI using QT designer and Python implementing features like a scalable interface to improve usability.
- Documented and analyzed inter-process communication (IPC) commands improving reliability and system performance.
- Presented and created multiple presentations and documentation to compare technologies for the company's stack
- Created interactive graphs on the portal using Plotly.js to visualize heart rate and tap control patterns enhancing data insights.
- Utilized Jira, Confluence and Slack for team collaboration, task management and project documentation.

Tobar Industries San Jose, CA
Automation Intern: Punch Press Control Development 05/2023 - 08/2023

- Engineered an advanced control system for a punch press machine using C++ and Raspberry Pi.
- Worked closely with mechanical engineers to enhance safety and efficiency.
- Integrated a dual-switch mechanism leveraging embedded systems knowledge, reducing accidents by 25%.
- Optimized operational workflows using SQL for data management, achieving a 20% increase in productivity.

Etched Media San Jose, CA
IT Intern: Infrastructure Setup & Management 04/2022 - 06/2022

- Oversaw network security upgrades and IT system administration during a corporate relocation, achieving zero downtime.
- Transitioned servers seamlessly using SonicWall and UPS systems, maintaining uninterrupted business operations.
- Managed AWS data backups, ensuring 100% data integrity during the relocation process.

PROJECTS

Backend Lead for Full-Stack Marketplace Web application 02/2024-05/2024

- Led the Backend part of a team developing a marketplace web application using Node.js and Vue.js, integrating MySQL databases and deploying on AWS. Used GenAI to optimize backend systems for innovation and scalability.

DataBase Implementation Project 10/2023 – 12/2023

- Designed a MySQL database focusing on 'Genetic Engineering' data, creating complex queries and ensuring data integrity. Integrated the database with a Discord bot for efficient user interaction.

FAT File System Development Project 10/2023-12/2023

- Built a FAT file system in C with a focus on volume formatting and memory management. Enhanced usability with shell utilities and documented the project on Github.

Full-Stack Website Development Project 02/2023-05/2023

- Developed a video sharing platform similar to Youtube reels using React and Node.js, with responsive design and SQL based backend. Added interactive features to boost user engagement.

SKILLS

Spoken Languages: French, Arabic, English, Spanish.

Programming Languages: Python, Java, Javascript, C++, C, SQL, HTML, CSS, R, Assembly..

Tools: Git, RStudio, MySQL, Excel, AWS, Raspberry Pi, Vue.js, Node.js, React, GCP.

Technical Skills: Full-Stack Development, DataBase Management, Embedded Systems, IT infrastructure, Network Security, Data Analysis, Operating Systems, Linux, Prompt Engineering.

Soft Skills: Problem Solving, Teamwork & Collaboration, Project Management, Effective Communication, Time Management, Adaptability in a Startup Environment.