

ALEX NHAM

London, ON | alexnham11@gmail.com | alexnham.com | (548) 888-5091 | github.com/alexnham

WORK EXPERIENCE

AQX AI - SOFTWARE ENGINEER INTERN

April 2024 - September 2024

- Developed and optimized a Node.js server for real-time communication with an AI agent, integrating API endpoints to streamline data exchange, reducing latency by over 90%, and resolving significant hardware limitations
- Integrated and tested multiple speech-to-text and text-to-speech solutions, enhancing efficiency and interaction
- Designed and implemented a front-end interface in React, enabling users to easily initiate outbound calls with our AI Agent API
- Extensively utilized SQL servers to enhance data handling and efficiency
- Conducted system optimization and testing, enhancing performance by over 50%
- Containerized the server and databases using Docker, ensuring consistent environments and streamlined deployment processes
- Deployed on Azure cloud services, enhancing scalability and integration capabilities

FREELANCE SOFTWARE ENGINEER

February 2024 - Current

- Designed and developed responsive websites for local businesses, increasing client engagement by an average of 30%.
- Implemented SEO strategies that improved website visibility and organic traffic by 50%.
- Collaborated with clients to gather requirements and deliver user-friendly applications, resulting in positive user feedback.

GAGNON LEVESQUE INC - WEBSITE COORDINATOR

August 2023 - Current

- Enhanced client web stores using CSS, earning quality customer reviews
- Designed custom automation scripts using Python and API calls, improving workflow processes by over 70%
- Managed and organized large datasets using Microsoft Excel, resulting in faster uploads and timely project completion
- Utilized JSON to manage and edit custom features, enhancing project flexibility and ensuring alignment with specifications

PROJECTS

PROJMANAGE - REACT.JS, NODE.JS, EXPRESS.JS, MONGODB

- Developed a project management system that enables users to effectively organize, track, manage, and showcase their projects.
- Designed user interfaces for project listings and user profiles using React and Tailwind CSS, enhancing user experience with responsive and intuitive designs.
- Built backend APIs with Node.js and Express to support project creation functionalities, enabling seamless interaction between front-end and back-end.
- Created MongoDB schemas for managing users and projects, improving data organization and retrieval.
- Conducted API testing with Postman to ensure functionality and reliability, validating API performance and identifying issues.
- Implemented JWT-based authentication for secure user registration and login, ensuring data privacy and security.

GOOD MORNING SOLANA - RUST, PYTHON, FLASK, REACT.JS, TAILWIND

- Developed an innovative application that allows users to receive text updates on their fungible tokens' values on the Solana blockchain, improving user engagement with real-time token information
- Utilized Rust to implement Solana smart contracts, ensuring secure and efficient blockchain operations
- Integrated various RESTful APIs, such as Helius and Twilio, to enhance functionality and communication within the application
- Created and styled the user interface with React and Tailwind, delivering a modern and user-friendly experience
- Utilized Flask to build a robust server, effectively handling requests and ensuring smooth client-server communication

ADRENAL NHAMOGRAM - FLUTTER, REACT.JS, PYTHON

- Co-created a scoring system for adrenal incidentalomas and presented it at the AUA Annual Meeting 2024, contributing to the development in medical assessment tools
- Built a Flutter mobile app for iOS and Android, making the scoring system accessible and user-friendly on mobile devices
- Implemented React to create a web app for seamless user interaction, enhancing usability and engagement with the scoring system
- Validated potential test combinations in Python for accuracy, ensuring reliable and precise results in the scoring system

IN-HOUSE BOOKING SYSTEM - JAVA, MYSQL

- Created an efficient in-house booking desktop application in Java, allowing users to seamlessly schedule and organize appointments. The application features an integrated calendar function for easy monitoring of bookings.
- Utilized JavaFX to display the user interface.
- Implemented employee, service, and booking management functionalities by utilizing MySQL for data storage and organization.

SKILLS

- Languages: Java, Python, C, C++, C#, JavaScript
- Software: React.js, Node.js, Express.js, MongoDB, SQL, Microsoft Office Suite, Unix, Docker, Azure, React Native, Flutter, Xcode
- Additional Skills: Team Collaboration, Project and Time Management, Strategic Thinking, Problem-solving Abilities

EDUCATION

UNIVERSITY OF WESTERN - B.SC., COMPUTER SCIENCE (GPA 3.8)

Expected Graduation

- Relevant Coursework: Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Databases, Software Engineering, Information Systems and Design, Operating Systems, Communications and Multimedia, Software Tools and Systems Programming, Computer Organization and Architecture, Statistics