MARTIN WONG

Vancouver, BC

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Technical Skills

Languages: Java, Python, C++, HTML5/CSS3, JavaScript, SQL
Frameworks/Libraries: React.js, Express.js, Node.js, Mongoose, Material-UI, Tailwind
Developer Tools/Technologies: Git, Webpack, MSSQL

Work Experience

Software Developer Intern   **Jul 2023 - Present**
Avena Tech Corporation | Node.js, HTML, CSS, Javascript   *Vancouver, BC*
- Redesigned websites in Figma and developed them in React.js and Tailwind.css improving load times by over **75%**
- Developed and integrated REST API endpoints using Express.js and MongoDB, successfully migrating over 60 Wordpress blogs to a new, efficient platform for future blogs
- Successfully diagnosed and resolved complex issues with WordPress websites, including troubleshooting plugin conflicts, database connectivity problems, and server-related issues to improve load times
- Coordinated 8 client meetings to discuss requirements and design changes, ensuring alignment with client needs and adherence to Nielsen Norman Group's UX/UI principles

Undergraduate Research Assistant   **Apr 2023 - Sept 2023**
Simon Fraser University | C#, Python, Unity   *Vancouver, BC*
- Developed Unity simulations in C# for IMU sensor data in order to analyze whether it accurately matches the real world, allowing researchers to see how good their machine learning models are
- Collected XYZ and rotational data generated from training data generated by the T2M-GPT model in order for researchers to identify joints of motion to increase accuracy to real human motion
- Collaborated with graduate students from SFU and Darthmouth College under the supervision of Dr. Xing-Dong Yang

Technical Support   **Aug 2021 – Aug 2023**
Auphan Software   *Vancouver, BC*
- Resolved 1000+ tickets for POS software systems, payment processor integration, and software installation with big North American companies
- Collaborated with sales, development, and technical support teams to communicate regression reports and ensured tracking and support until resolution
- Troubleshooted database and server outages involving Apache, PostgreSQL, and pgbouncer

Projects

Kanban Planner | *MongoDB, Express, React, Node*   **Apr 2022**
- Developed and deployed a fullstack Kanban planner app which allows users to manage their tasks and projects in an organized and efficient way, using REST APIs and Mongoose for connecting Node and MongoDB
- Used Material UI and react-beautiful-dnd for CRUD operations, allowing users to create, move, delete new tasks
- Implemented robust client and server-side form validation using AJV, a JSON schema validator library, to ensure data integrity and maintain high standards of data purity in the web application

Command-line Document Handler | *Java*   **Apr 2022**
- Developed a document handler GUI simulated in a command-line interface using Java, featuring document creation, opening, closing, resizing
- Designed a UML diagram showcasing 6 key classes, abstract classes, inheritance, and polymorphism reducing development time with reduced complexity

Sudoku Solver | *Java*   **Oct 2021**
- Implemented a recursive Sudoku Solver in Java using the backtracking algorithm; optimized to solve various puzzle complexities, ensuring robustness and computational efficiency
- Engineered a custom algorithm to validate Sudoku puzzles across rows, columns, and 3x3 grids, incorporating advanced programming concepts and data structures for effective puzzle analysis

Education

Simon Fraser University   **May 2022 – May 2025**
Bachelor of Science, Computing Science   *Burnaby, BC*
Langara College   **Sept 2021 – May 2022**
Associate of Science, Computer Science (Dean's Honour roll)   *Vancouver, BC*