MARTIN WONG

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EDUCATION

Simon Fraser University   **May 2022 - May 2027**
Bachelor of Science, Computing Science   *Burnaby, BC*

WORK EXPERIENCE

Software Developer Intern   **Sep 2025 - Apr 2026**
Rivian   *Vancouver, BC*

Software Developer Intern   **Jul 2023 - Present**
Avena Tech Corporation   *Vancouver, BC*

- Redesigned, developed and deployed full-stack websites utilizing Figma, **React**, and Tailwind optimizing load times by **75%**
- Streamlined deployment by utilizing BASH and Docker Compose to create a **CI/CD** pipeline for testing, building, and deploying Docker containers, reducing development time by 50%
- Developed and deployed a new blogging platform with containerized REST API endpoints using **Express.js**, **AWS S3**, and **PostgreSQL**, migrating over 60 WordPress blogs to a new, efficient platform for future blogs
- Coordinated 20 meetings to discuss requirements and design changes with clients, outsourced developers, UX/UI designers, and SEO experts to optimize website ranking and user engagement

Undergraduate Research Assistant   **Apr 2023 - Sep 2023**
Simon Fraser University | SFU iXLab under Dr. Xing-Dong Yang   *Vancouver, BC*

- Enabled machine learning model validation by developing IMU sensor data simulations utilizing Python
- 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 Dartmouth College under the supervision of Dr. Xing-Dong Yang

PROJECTS

Personalized AI Discord Bot | *Python, NodeJS, FastAPI, AWS EC2*   **May 2024**

- Fine-tuned Meta's Llama2 LLM on **120,000** Discord messages to create a personalized chatbot to respond in the style of the user
- Trained and deployed the fine-tuned model on Replicate accessed by a FastAPI endpoint, containerized on **Docker** and hosted on an **AWS EC2 instance**, and deployed on via PM2 on a personal home Ubuntu server for continuous uptime
- Wrote Python scripts to convert and preprocess Discord message data from JSON to JSONL, filtering sensitive information from **3,000** messages and ensuring seamless integration to Llama2 model and user privacy

Kanban Planner | *MongoDB, ExpressJS, ReactJS, NodeJS*   **Jan 2023**

- Developed a full-stack Kanban Planner app which allows users to manage their tasks in an organized and efficient way
- 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
- Used Material UI and react-beautiful-dnd for CRUD operations, allowing users to create, move, delete tasks

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, reading, and writing
- Designed a UML diagram showcasing 6 key classes, abstract classes, inheritance, and polymorphism reducing development time with reduced complexity

TECHNICAL SKILLS

Languages: Java, C, C++, Python, Go, Kotlin, x86, HTML, CSS, JavaScript, Typescript, SQL, BASH
Frameworks/Libraries: React, ReactNative, NextJS, Express.js, NodeJS, Mongoose, GraphQL, Tailwind, Jest
Developer Tools/Technologies: Git, Docker, AWS (S3, EC2, ECS, ECR), Linux, MSSQL, PostgreSQL, NGINX, Postman

VOLUNTEERING

Microsoft TEALS | *Teaching Assistant*   **May 2024 – Present**

- * Led Python programming sessions for grade 8-10 students, encouraging enthusiasm for coding
- * Evaluated student progress through grading assignments and providing positive constructive feedback to help students grow
- * Established a positive learning environment that supports diversity, inclusion, ensuring all students feel valued and supported