Ryan Wong

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EDUCATION

University of Calgary — Calgary, AB

Bachelor of Science in Computer Science, Minor in Management and Society — *Sept 2022 – Present*

- **Selected Coursework**: Computer Networks, Compting Machinery, Database Management Systems, Linear Algebra, Statistics
- Enrolled in the Science Internship Program

EXPERIENCE

Jr. Product Developer Intern — Jan. 2025 – Present

Modular Solutions (formerly Nude Solutions) — *Calgary, AB*

- Developed an automated documentation system using Python and LLMs that transformed source code into comprehensive guides for internal product designers and the company's clients
- Designed and implemented complex insurance rules in JavaScript for the company's proprietary rules and rating engine
- Developed reusable core functionality in C#/.NET backend services and React UI components, improving system maintainability and accelerating development cycles
- Applied Domain-Driven Design (DDD) principles to maintain clean software architecture, improve code quality, and enhance cross-team collaboration

Software Developer — July 2023 – Sept. 2024

Toysoft — *Calgary, AB*

- Developed an GUI and logic for a mobile applications in Kotlin
- Created a back-end service in JavaScript to handle WebRTC requests between clients
- Automated process of sending WebRTC feeds to an external servers for saving through RTSP and other protocols

Freelance Developer — Jan. 2020 – Present

Self Employed — *Calgary, AB*

- Identified and addressed errors in existing software, improving code readability, and upgrading user interfaces
- Developed custom software solutions and automated scripts that reduced manual processing time by **75%**
- Created custom tailored websites, Discord bots and scripts for clients based on unique needs and constraints for over **5** unique clients that served **10,000+** users at its peak

PROJECTS & HACKATHONS

Hack The Change 2024, 2nd Place | *Firebase, Javascript React*

- Designed interactive game promoting healthy mental health strategies and creating an inclusive community feed
- Integrated an LLM to generate broad subjects to match and classify a user's journal entry based on tone, theme and topic
- Implemented a custom filter using an LLM to detect harmful comments and posts

Blog Website | *MDX, Next.js, TypeScript*

- Developed a modern, statically generated personal blog using Next.js and TypeScript, enabling seamless publishing and organization of technical articles and life documentation
- Implemented and extended dynamic markdown/MDX rendering with a custom parser, integrating Prism.js syntax highlighting, custom image embedding, and enhanced formatting for code-focused posts
- Automated reading time estimation, rich metadata extraction, and responsive design with Tailwind CSS, delivering fast, accessible, and visually appealing blog pages

TECHNICAL SKILLS

Languages: C#, Dart, HTML / CSS, Java, JavaScript, Kotlin, Python, SQL, TypeScript
Frameworks: .NET, Express.js, Flutter, Node.js, React, Vue
Developer Tools & Platforms: Android Studio, AWS, Azure, Docker, Git/GitHub, Linux
Databases & Backend Services: Firebase, MongoDB, MySQL, Postgres