

# Ryan Wong

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## TECHNICAL SKILLS

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**Languages:** C#, C++, Dart, HTML / CSS, Java, JavaScript, Kotlin, Python, SQL, TypeScript

**Technologies / Frameworks:** .NET, Android Studio, AWS, Docker, Express.js, Firebase, Flutter, Git/GitHub, Linux, MongoDB, MySQL, Node.js, Postgres, React, Vue

## EDUCATION

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**Bachelor of Science in Computer Science, Minor in Management and Society**

Sept 2022 - Present

*University of Calgary, Alberta*

*Calgary, AB*

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

## EXPERIENCE

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**Jr. Product Developer Intern**

Jan 2025 - Present

*Nude Solutions*

- 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
- Architected 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*

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

**Freelance Developer**

2020 – Present

- 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

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**Hack The Change 2024, 2<sup>nd</sup> 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

**Discord Bots** | *Docker, Javascript, Python, Raspberry Pi*

- Automated tasks such as sending out social media updates by listening to events (Tweets, YouTube posts, going live on Twitch)
- Implemented an automated ticket process which asked users questions, added them to a private channel with staff members and sent relevant details
- Resulted in improved communication between clients and their customers and improved efficiency in their day-to-day processes