

# Christian Valdez

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## Education

### Schulich School of Engineering, University of Calgary

- Master of Engineering in Software
- Bachelor of Science in Electrical Engineering

## Skills

- **Languages:** JavaScript (TypeScript), Python, SQL, HTML, CSS, Java, C/C++, Bash
- **Web Development:** React, Next.js, Django, Node.js, Express.js
- **Testing:** Cypress, TestRail, JUnit
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Tools:** Git, Docker, Jira, Postman
- **Cloud:** Vercel, Railway, Supabase, Firebase, Neon

## Experience

### Software Quality Assurance Analyst

Feb 2024 - Present

Showpass, Calgary, AB

- Created and established a standardised QA process, including test planning and bug tracking
- Built automated tests using Cypress, reducing manual testing time for core user features
- Designed API tests in Postman to verify data accuracy and system security
- Worked with developers to add QA steps in development cycles, improving software quality
- Respond to client support requests and escalate priority when needed
- Created testing guides and documentation for the team

### Graduate Research Assistant

Jun 2023 - Apr 2024

Biometric Technology Lab, Calgary, AB

- Improved breathing pattern detection accuracy by 10% using machine learning
- Developed software to track human movement in videos for automated data collection
- Created tools to clean and analyse sensor data
- Wrote technical documentation and presented findings to project stakeholders

### Software Quality Assurance Intern

Jul 2021 - Apr 2023

Computer Modelling Group Ltd., Calgary, AB

- Integrated version control systems to improve code management
- Created Python scripts to automate data collection and reporting
- Set up scheduled testing to reduce manual work
- Built tests to find memory issues and performance problems
- Managed testing for product releases

## Projects

### DayHome Management System (In Progress) | React, Next.js, Django, PostgreSQL, Chakra UI

- Creating a dashboard for daycare providers
- Designing a database for managing day home provider information
- Built automated tools for data collection
- Implemented automated reports and email notifications

### K-pop Fan Community Site (In Progress) | React, Next.js, Supabase, Chakra UI

- Building an interactive fan website to browse and discuss K-pop artists
- Creating features for user artist rankings and viewing case studies

### Church Website | React, Next.js, Supabase, Django, Tailwind CSS

- Developed a website for simplified content management
- Created tools for the media team to manage content
- Designed event pages and contact forms