# 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, BrowserStack, JUnit
- **Data Management:** PostgreSQL, MySQL, MongoDB, Supabase, Vercel
- **Tools:** Git, Docker, Jira, Postman

## Experience

**Software Quality Assurance Analyst**                                                      Feb 2024 - Present
Showpass, Calgary, AB

- Created and established a standardized 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.
- Developed metrics to monitor test coverage, automation rate, and defect resolution time.
- Collaborated with developers to integrate QA steps in development cycles, improving software quality.
- Responded to client support requests and escalated priority when needed.
- Created testing guides and documentation for the team using TestRail.

**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 analyze 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 identify 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.