

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:** TypeScript/JavaScript, Python, Java, SQL, C/C++, HTML, CSS, Batch, Bash
- **Frameworks:** Next.js/React, Django, Node.js/Express.js, Cypress, JUnit, Apache Spark
- **Tools and Services:** Git, Jira, Postman, Docker, TestRail, Supabase, Firebase, TeamCity, VMware

Experience

Software Quality Assurance Analyst

Feb 2024 - Present

Showpass, Calgary, AB

- Led the creation of test suites and release cycles, gathered quality metrics, and provided product feedback to reduce bugs in production.
- Developed and maintained end-to-end automation scripts for new and existing features, reducing manual testing efforts.
- Fixed existing tests to eliminate crashes, improving test efficiency.
- Reviewed product requirements to ensure complete coverage and accuracy.

Graduate Research Assistant

Jun 2023 - Apr 2024

Biometric Technology Lab, Calgary, AB

- Developed adaptive neural network architectures for varied environments, improving the detection accuracy of abnormal respiration patterns in clients by 10%.
- Applied person detection algorithms to optimize region-of-interest identification, improving spatial feature extraction efficiency.
- Automated data cleansing and metadata extraction processes, achieving significant efficiency gains.

Software Quality Assurance Intern

Jul 2021 - Apr 2023

Computer Modelling Group Ltd., Calgary, AB

- Conducted automated black-box tests, reducing turnaround time and enhancing software quality through efficient tracking and feedback using Azure DevOps.
- Improved software standards by integrating ClearCase builds with Git commands.
- Automated workflows for simulating templates, collecting results, and populating Excel, which enhanced data visualization and reduced manual tasks.
- Migrated all tests to a unified TeamCity server, enhancing scheduling and reducing maintenance needs.
- Developed tests for memory and threading errors, enhancing product reliability and security.

Projects

Church Landing Page (In Progress) | *Next.js, Supabase, Tailwind CSS, Docker, Vercel, Figma*

- Developing a responsive landing page for church members to browse content, explore upcoming events, and submit help forms on both web and mobile devices.
- Designed a small-scale database using Supabase to handle content fetching and data updates.
- Using Docker for local development and planning to deploy on Vercel for hosting.

DayHome App (In Progress) | *Next.js, Django, Cypress, ChakraUI, PostgreSQL, MySQL*

- Creating a responsive UI and provider dashboard for viewing analytics and log entries extracted from the CRAFTS website to address specific workflow pain points.
- Designing a small-scale database to store and manage day home entries.
- Automated the extraction of CSV data from the CRAFTS website, reducing the need for manual data entry.
- Built an ETL tool to automate the processing of CSV data.
- Fully automated timesheet entry and email dispatch for improved efficiency.