

# Christian Valdez

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## Education

<b>Master of Engineering - Software (Expected)</b>	May 2023 - May 2024
• Schulich School of Engineering, University of Calgary	
<b>Bachelor of Science in Electrical Engineering</b>	Sep 2018 - May 2023
• Schulich School of Engineering, University of Calgary	

## Skills

- **Languages:** Java, Python, JavaScript, TypeScript, C, C++, SQL, HTML, CSS, Batch, Bash.
- **Frameworks:** React, React Native, Node.js, Express.js, Django, JUnit, Bootstrap, MySQL, Apache Spark.
- **Tools:** Git, Azure DevOps, Firebase, Supabase, Jira, TeamCity, VMware, Postman, ClearCase.

## Experience

<b>Graduate Research Assistant</b>	Jun 2023 - Present
Biometric Technology Lab, Calgary, AB	
• Developed adaptive neural network architectures tailored for various environments, enhancing the detection of abnormal respiration patterns in sleeping clients.	
• Utilized advanced person detection algorithms to improve region-of-interest identification, thereby enhancing spatial feature extraction efficiency.	
• Automated data cleansing and metadata extraction processes, achieving significant efficiency gains.	
<b>Software Quality Assurance Intern</b>	Jul 2021 - Apr 2023
Computer Modelling Group Ltd., Calgary, AB	
• Enhanced software quality by conducting automated black-box tests, reducing turnaround time through effective tracking and feedback using Azure DevOps.	
• Strategized and implemented testing protocols for complex, multi-system environments.	
• Enhanced software standards by integrating ClearCase builds with Git commands.	
• Engineered automated workflows for simulating templates, collecting results, and populating Excel, enhancing data visualization and streamlining manual operations.	
• Migrated all tests to a unified TeamCity server, enhancing scheduling and reducing maintenance needs.	
• Implemented tests for memory and threading errors, bolstering product reliability and security.	

## Projects

<b>DayHome Timesheet System (In Progress)   React, Supabase, MySQL, Python</b>
• Developing an augmentation tool for the Crafts Web Application, enhancing data processing efficiency and improving user interface clarity for CSV file handling
• Implementing automation features to aggregate data and facilitate reporting through CSV exports.
<b>Dating App Clone (In Progress)   React Native, Firebase</b>
• Collaborating on creating a cross-platform dating app, utilizing React Native to deliver a smooth and responsive user experience.
<b>Flight Reservation System   React, Node.js+Express.js, MySQL</b>
• Designed a user-centric web application enabling seamless flight browsing and booking experiences.
• Implemented administrative tools for managing flight crews and schedules, with agent-specific interfaces.
<b>Capstone Design Project   C, STM32 Microcontroller</b>
• Partnered with Genoptic LED in the design of an STM32-based IoT device for real-time plant growth monitoring and data transmission to a local server.
• Achieved a high degree of precision with the prototype, ensuring data accuracy of over 95% within specified parameters