

# Christian Valdez

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## Education

<b>Master of Engineering - Software</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++, C#, SQL, HTML, CSS, Batch, Bash.
- **Frameworks and Tools:** React, React Native, Node.js, Express.js, Django, Git, Azure DevOps, MySQL, MongoDB, VMware, Postman, Docker, JUnit, jQuery, Bootstrap, ClearCase, TeamCity, Apache Spark.

## Experience

<b>Graduate Research Assistant</b>	Jun 2023 - Present
Biometric Technology Lab, Calgary, AB	
• Developed adaptive neural network architectures for detecting abnormal respiration patterns in sleeping clients, tailoring these to various video inputs and environments.	
• 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	
• Analyzed quality-related information using automated black-box tests, providing daily feedback to developers, and maintained bug tracking through Azure DevOps.	
• Enhanced software standards by integrating ClearCase builds with Git commands.	
• Created automated workflows for template simulation, result collection, and Excel data population, streamlining manual processes and improving data visualization.	
• 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.	
• Mentored a new intern to become a productive team member and revised training documentation.	

## Projects

[Portfolio Website](#)

<b>DayHome Timesheet System (In Progress)   React, MySQL, Django</b>
• Developing a tool to augment the Crafts Web Application, efficiently processing and displaying data from CSV files on a web interface.
• Automatically aggregates and exports data to a CSV file for enhanced reporting.
<b>Dating App Clone (In Progress)   React Native</b>
• Collaborating on the development of a cross-platform dating app, leveraging React Native for seamless 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.
• Successfully achieved $\pm 2\%$ accuracy in the prototype, ensuring data accuracy exceeds 95% within the target parameters.