

Christian Valdez

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Education

Master of Engineering - Software	May 2023 - May 2024
<ul style="list-style-type: none">Schulich School of Engineering, University of Calgary	
Bachelor of Science in Electrical Engineering	Sep 2018 - May 2023
<ul style="list-style-type: none">Schulich School of Engineering, University of Calgary	

Skills

- **Languages:** Java, Python, JavaScript, 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

Graduate Research Assistant	Jun 2023 - Present
Biometric Technology Lab, Calgary, AB	
<ul style="list-style-type: none">• 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.	
Software Quality Assurance Intern	Jul 2021 - Apr 2023
Computer Modelling Group Ltd., Calgary, AB	
<ul style="list-style-type: none">• 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](#)

DayHome Timesheet System (In Progress) React, MySQL, Django
<ul style="list-style-type: none">• 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.
Dating App Clone (In Progress) React Native
<ul style="list-style-type: none">• Collaborating on the development of a cross-platform dating app, leveraging React Native for seamless user-experience.
Flight Reservation System React, Node.js+Express.js, MySQL
<ul style="list-style-type: none">• 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.
Capstone Design Project C, STM32 Microcontroller
<ul style="list-style-type: none">• 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.