

Christopher Luey

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EDUCATION

University of British Columbia
Bachelor of Science in Computer Science

Vancouver, BC
2016 – 2022

EXPERIENCE

Software Engineer

June 2022 – Feb 2024

Seron Electronics

Vancouver, BC

- Architected and realized a full-stack Electron companion app that allows users to communicate to the device from a computer; as well as generate and run graphical waveforms on the company power platform
- Implemented and optimized a two-way streaming protocol between the desktop app and a microcontroller, dramatically improving the data time resolution from 100 ms to 10 ms
- Constructed a Python project to calibrate and test DACs on the machine, improving manufacturing speed by 10x
- Completed and refactored numerous Vue.js end-to-end features to greatly increase the complexity of waveform analysis within the companion software with full error and edge case handling
- Independently managed multiple project tickets, taking ownership of tasks from inception to completion, ensuring project milestones were met efficiently
- Put platform-agnostic front-end design principles into action and created builds for each desktop platform, allowing the application to maintain consistency and functionality regardless of the operating system.

Software Engineer Intern

Apr 2020 – Dec 2020

Craver Solutions

Vancouver, BC

- Developed a React.js feature end-to-end that allows thousands of customers to choose a nearby GPS location to pick up food
- Built out payment integrations with Square, Stripe and Toast APIs and delivery integrations with DoorDash, Uber Eats and Postmates APIs for customer and restaurant usage in the Craver desktop ecosystem
- Optimized a back-end API workflow to better reconcile restaurant data improving order accountability

Software Engineer Intern

Sep 2018 – Apr 2019

One45 (Acquired by Acuity Insights)

Vancouver, BC

- Delivered an educational report output system using PHP and AJAX giving hundreds of medical students the ability to view medical exam results at any given time
- Mentored an intern for 4 months with onboarding and coding advice for numerous project tasks

PROJECTS

Trans Name Generator | *React, Expo*

Nov 2021 – Jan 2022

- Implemented a JavaScript mobile app that suggests names for people transitioning given the phonetic spelling of their previous name
- Designed a sort function using the Levenshtein distance between word pronunciations to create the name suggestions, allowing for optimized search finding for names with phonetic similarity

Avoid the Virus Game | *C++, OpenGL*

Sept 2021 – Dec 2021

- Created a 2D platformer/turn-based RPG hybrid game using native C++ and OpenGL in a team of 5
- Implemented a JSON level loader to store player, platform, and enemy positions for level configuration

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, C, C++, SQL, HTML/CSS, R, PHP, Golang, TypeScript

Frameworks: React.js, Node.js, JUnit, Vue.js, Electron, AJAX, jQuery

Developer Tools: Git, Google Cloud Platform, VS Code, IntelliJ, PlatformIO, DynamoDB, Jenkins

Libraries: MATLAB, NumPy