

Jason Lange

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TECHNICAL SKILLS

Programming Languages: C/C++, Java, Kotlin, Python, Javascript, SQL, R

Tools/Libraries: React, Git, MySQL, REST APIs, NumPy, pandas, tidyverse

Relevant Courses: Software Engineering, Databases, Operating Systems, Algorithms Analysis, Machine Learning

EXPERIENCE

Independent Software Engineer

May 2025 – September 2025

Automated Futures Trading System

Richmond, BC

- Designed and built an automated system to optimize futures contract trades using historical market data and statistical analysis
- Implemented end-to-end pipeline including data ingestion, signal generation, risk management, and execution logic
- Achieved positive net returns while managing downside risk through stop logic and spread management
- Validated system in production and later sold the codebase and IP due to limited maintenance bandwidth

Firmware Developer

November 2024 – May 2025

OK Motorsports Formula SAE

Kelowna, BC

- Developed hardware-in-the-loop (HIL) simulations with Python to validate electric vehicle components and determine expected behavior of unit and RTOS
- Used STM32CubeMX, VirtualBox, and Vagrant for mapping correlation between code and firmware inputs
- Developed an RTOS-based dashboard display system for the vehicle

Concierge / Front Desk Services

Summer 2021; June 2022 – September 2023

Compass Group Canada

Richmond, BC

- Served as the primary front desk point of contact for residents, families, and staff in a senior living facility
- Maintained facility cleanliness across common areas
- Administered first aid and provided emergency support to residents while coordinating with EMS

PROJECTS

Arduino Keyboard | C, Fusion360

- Designed and 3D-printed an Arduino-based keyboard, overseeing manual assembly and hand-wiring of circuitry
- Hand-soldered diodes to enable N-key rollover functionality and implemented custom C firmware with animations

Car Forum App | Java

- Developed a forum-style Android application for users to create, view, and interact with posts
- Implemented a dynamic UI using RecyclerView to display and manage lists of user-generated content efficiently

Resume Editor | React, Vite, CSS

- Built a modern resume editor with real-time live preview using React
- Implemented dynamic form handling to add, update, and remove entries

SaaS Landing Page | JavaScript, HTML/CSS, Vercel

- Built a responsive landing page with an interactive pricing calculator and mobile-responsive navigation

EDUCATION

University of British Columbia

Bachelor of Science (BSc) in Computer Science

Expected 2027

- Minor in Data Science
- Undergraduate Co-operative Education