JASKIRAT SINGH

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EDUCATION

M.Eng. Software Engineering, University of Calgary — May 2024 - April 2025
Relevant Coursework: Big Data Engineering, Machine Learning, Software Architecture Design, Database Design, Advanced Systems Analysis.

B.Sc. Electrical Nano-Engineering, University of Alberta — September 2018 - April 2022
Relevant Coursework: Intelligent Systems Engineering, Advanced C/C++, Embedded System and Logic Design.

SKILLS

Programming Languages	Python (Pandas, NumPy, scikit-learn), Java, C++, C, Swift
Web Development	React (Javascript and Typescript), Node.js, RESTful API, Google Cloud
Mobile Development	SwiftUI, Figma, Flutter
Software and Tools	Git, Docker, Postman, Selenium, Apache Spark, SpringBoot, Matlab

EXPERIENCE

R&D Process Development Engineer — August 2022 - May 2024
Redlen Technologies (Canon Inc.) — *Victoria, BC*

- Recouped 25 hours a week with custom **Python** scripts to automate data collection and pre-processing.

- Worked to design and test reliable solutions for the intricate requirements of the medical semiconductor industry.

Software Engineer Intern — April 2022 - August 2022
Elko Engineering Garage — *Edmonton, AB*

- Developed and implemented 10+ custom educational software scripts, increasing engineering tool efficiency by 25%. Conducted team training sessions and weekly code reviews to ensure software quality.

Firmware Developer — September 2021 - April 2022
Eleven Engineering — *Edmonton, AB*

- Designed the firmware for integrating external RAM and microSD card subsystems into the operating system for "Daisy Bell" — a credit-card sized computer based on the XinC2 microprocessor.

- Programmed the GUI, created multithreading functions, and added GPIO support using custom XinC2 assembly, C, and C++.

PROJECTS

Full Stack Engineer, Lead Developer — September 2024 - December 2024
Custom resume and cover letter generator, with a focus on LLM Engineering — *Calgary, AB*

- Developed a resume and cover letter generator with **ChatGPT** API integration for job-specific customization.

- Developed a responsive frontend in **React** with Grommet, backend in **Node.js** and an SQL database hosted on **Google Cloud**. Followed **CI/CD** practices while collaborating with an **Agile** development team of 7 members.

Full Stack Engineer — November 2024 - December 2024
Movie theater reservation webapp — *Calgary, AB*

- Designed a movie ticket reservation webapp in **React** with the backend in **Java SpringBoot** and an SQL database, using microservices architecture. Built with **software design patterns** and standard industry practices.