JASKIRAT SINGH

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EDUCATION

M.Eng. Software Engineering, University of Calgary — 2024 - Present
GPA: 4.0
Relevant Coursework: Big Data Engineering, Machine Learning, Software Architecture Design, Database Design, Advanced Systems Analysis.

B.Sc. Electrical Nano-Engineering, University of Alberta — 2018 - 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, Apache Spark, Cloud Computing, SpringBoot, Matlab
Soft Skills	Communication, Problem Solving, Team Collaboration

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.

EXPERIENCE

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

- Recouped 30 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++.