

# 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

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