Jagraj Singh Gill

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EDUCATION

Simon Fraser University   Burnaby, BC
Bachelor of Science in Computer Science   *Dec 2027 (expected)*
- Courses: Data Structures & Algorithms, Object-Oriented Programming, Web Development

SKILLS

Languages: C, C++, Java, JavaScript, Python, HTML5, CSS
Libraries/Frameworks: React.js, Node.js, Express.js, GraphQL
Databases/Cloud: MongoDB, MySQL, SQLite, AWS

EXPERIENCE

Savi Finance   May 2025 – Aug 2025
Software Engineer Intern   *Toronto, ON*
- Engineered cross-platform modules for a fast-growing Fintech SaaS platform (**1000+ active users**), unifying **React** and **React Native** logic with **MongoDB**-backed services, reducing release time by **20%** and streamlining code reuse across mobile and web.
- Led development of an in-place account editing feature using **React** and **Redux**, enhancing the account management experience and cutting form submission errors by **30%**, enabling users to update credentials without leaving the dashboard.
- Built and integrated **image upload functionality** using **AWS S3** and **GraphQL**, supporting custom goal photo uploads with preview, improving upload reliability and reducing image load failures by **20%**.
- Refactored **login UI and form validation** using **React** and custom hooks, adding real-time feedback and reducing user login errors by **45%**, improving authentication success rates and onboarding efficiency.

Storm Hacks   May 2024
Storm Hacks Summer 2024   *Burnaby, British Columbia*
- **Directed a 2-person team** in a 24-hour hackathon, coordinating task division and project delivery under strict time constraints.
- Designed and deployed **REST APIs** with **Node.js** and **Express.js** to enable real-time data updates, **reducing system response time by 30%**.
- Configured and managed **MongoDB** on **Linux servers** to optimize storage and retrieval, improving uptime and reliability by eliminating recurring outages.
- Integrated dynamic frontend updates with **React.js**, increasing user engagement and session duration through a more seamless experience.

PROJECTS

Investment Tracker | *Java, Swing, JFreeChart*
- Built a Java desktop app with a Swing based GUI to visualize investment growth, rendering side by side charts using JFreeChart.
- Engineered portfolio logic to calculate asset performance in real time, based on live spot prices, quantities, and historical purchase data.
- Improved user reliability through exception handling and input validation, ensuring consistent chart behavior for dynamic asset entries.

Pothole Patrol | *React, Python, MongoDB, Node.js*
- Built a full-stack web app to crowdsource pothole reports, enabling real time tracking and public visibility to improve civic response times and accountability.
- Developed REST APIs with Node.js and Express to handle user submissions, geolocation, and status updates, reducing manual reporting by streamlining data collection.
- Provisioned and deployed MongoDB and backend services on a Linux server, achieving low latency access and 99% uptime for city wide pothole data.