Gursewak Singh

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Education

Simon Fraser University   April 2023 – December 2025
Bachelor of Science - Computer Science   *Burnaby, BC*
Relevant Coursework: Software Engineering, Linear Algebra, Discrete Mathematics

Douglas College   January 2019 – December 2020
Diploma - Computer Studies   *New Westminster, BC*
Relevant Coursework: DSA, Web Development, Relational and non-relational databases.

Software & Skills

Technical Skills: Python, JavaScript, C/C++ (intermediate), SQL, Java, HTML/CSS, Bash
Frameworks: React, Node.js, Django, Flask, JUnit
Other: Git, PostgreSQL, GitHub Actions, Docker, Vim, Tmux, Linux

Projects

CodeMentor AI | *Python, npm, ChakraUI, React, GitHub Actions*
- Led a four member team to create a web application "CodeMentor AI", using React, Chakra UI and Python to build a responsive UI implementing features like AI chat bot and code analyzing.
- Utilized GitHub actions and Netlify to set up a CI/CD pipeline for automatic deployment of the project which accelerated the development timeline by 25%.
- Created a Python API backend to provide a uniform interface for the frontend and to control access to resources.

Book Review Site | *Flask, React, WebSockets, PostgreSql*
- Created a full stack web application to allow users to login, search for books and post, edit and delete reviews.
- Consumed GoodReads API for gathering information about books and displaying the stats to user.
- Developed with a test-driven approach using Jest and Selenium to ensure functionality during common usage and edge cases, allowing for robust and complete application.

Cyber Crime data valuation | *Python, Matplotlib, Scikit-Learn, Pandas*
- Automated data collection from various sources including India's open government data (OGD) platform.
- Analysed the data for any data-points with high influence scores using various valuation methods such as Leave one out (LOO) and Shapley values.

Relevant Experience

Tech Lead - Physio AI   January 2024 – Present
SFU Blueprint   *Burnaby, BC*
- Researched technology solutions for the development of an AI-based physical therapy application.
- Led a development team of five using Github projects for task distribution and Lucichart to make detailed DFDS and WBS.

CS Peer Tutoring   September 2023 – December 2023
SFU Computing Science program   *Burnaby, BC*
- Provided one-on-one and group tutoring for 5 courses.
- Helped students with C++, C and python assignments and pointed them to the right direction.
- Assisted over 30 students, with many reporting significant improvement in grades and understanding of the material.

Vehicle Technician (Supervisor)   August 2022 – Present
Speed Truck and Trailer Repair   *Surrey, BC*
- Diagnosing and finding electrical and mechanical problems with commercial transport trucks.
- Distributing work among 12 employees to fix the faults found during diagnostics.
- Improved efficiency of shop by over 50% in completing work on time.

Additional Information

Interests: Reading, Badminton, microcontrollers, robotics.
Fun Projects: Atreus mechanical keyboard using RaspberryPi Pico.
Certification & Qualifications: Certified Commercial Transport Technician.