

SAURAV SINGH CHANDEL

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EDUCATION

Memorial University of Newfoundland

Bachelor of Science (Honours) in Computer Science & Applied Mathematics

St. John's, NL

Sep 2021 – May 2025

GPA: 3.76 / 4 – Computer Science GPA: 3.9 / 4 – Dean's List 2022–23

Selected coursework: Data Visualization; Data Structures & Algorithms; Web Development; Video Game Programming & AI Agents; Neural Networks; Calculus I, II & III; Linear Algebra; Numerical Analysis; Ordinary & Partial Differential Equations; Mathematical Modeling; Special & General Relativity

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C/C++, Java, SQL

Databases: MongoDB

Frameworks: Next.js, Node.js, TensorFlow, Bottle

Developer Tools: Linux, Git, Docker, Google Cloud Platform, VS Code, Neovim

Libraries: Pandas, NumPy, Matplotlib, stable-baselines3, scikit-learn, Sympy, SFML, Three.js

EXPERIENCE

Computer Science Help Centre Assistant

Sep 2024 – Dec 2024

Memorial University

St. John's, NL

- Provide support to students with their computer science coursework and assignments
- Foster a collaborative and supportive learning environment

Teaching Assistant

Sep 2023 – Dec 2024

Memorial University

St. John's, NL

- Assist professors in grading assignments and exams for a 100-student mathematics class
- Deliver weekly tutorials to reinforce concepts and provide additional support to students
- Invigilate quizzes and exams, ensuring a fair and secure testing environment

Database Analyst

May 2022 – Aug 2022

Memorial University

St. John's, NL

- Developed a Selenium-based automation script to detect and resolve email delivery issues, improving communication reliability
- Saved 30 hours of staff time throughout the semester through process automation for the Co-operative Education Services Department

PROJECTS

YouTube Clone | [GitHub](#) | Personal Project

Aug 2024

- Cloud-native architecture with Google Cloud Run for serverless deployment, Pub/Sub for message queuing, and Storage buckets for scalable media storage
- Backend logic powered by Firebase Functions
- Modern, type-safe front-end experience using the Next.js framework with TypeScript
- Tools Used:** TypeScript, Next.js, Google Cloud Run, Pub/Sub, Storage buckets, Firebase Functions

StockUP | [GitHub](#) | Academic Project

Apr 2024

- Full-stack JavaScript-based web application simulating a fast-paced stock trading environment
- Race against the clock to reach a target portfolio value by strategically buying and selling stocks using real-time data from the Polygon API
- Tools Used:** JavaScript, HTML, CSS, MongoDB, Polygon API

Message Board | [GitHub](#) | Academic Group Project

Dec 2023

- Python-based web application designed to facilitate online discussions and community interaction
- Features a user-friendly interface for creating posts, commenting, and engaging in conversations
- Tools Used:** JavaScript, HTML, CSS, MongoDB, Bottle
- Development Method:** AGILE