

SAURAV SINGH CHANDEL

✉ +1 (709) 324 0527 | 📩 sauravsingh527@gmail.com | 💬 LinkedIn | 🐧 GitHub | 🌐 Portfolio Website

EDUCATION

Bachelor of Science (Honours) in Computer Science & Applied Mathematics Memorial University of Newfoundland	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: React, Node.js, Express.js, Next.js

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

Libraries & Technologies: Tailwind CSS, DaisyUI, Inngest, Pandas, NumPy, Matplotlib, scikit-learn, Three.js

EXPERIENCE

Computer Science Help Centre Assistant Memorial University	Sep 2024 – Dec 2024
<ul style="list-style-type: none">Provided one-on-one and small-group academic support for core computer science courses, helping students debug code and understand algorithmsImproved student comprehension and confidence by breaking down complex programming concepts into clear, actionable steps	

Teaching Assistant Memorial University	Sep 2023 – Dec 2024
<ul style="list-style-type: none">Graded assignments and exams for a 100+ student mathematics course, ensuring consistency, fairness, and timely feedbackLed weekly tutorial sessions to reinforce lecture material, clarify problem-solving techniques, and address student questionsProctored quizzes and final exams while enforcing academic integrity and exam procedures	

Database Analyst Memorial University	May 2022 – Aug 2022
<ul style="list-style-type: none">Designed and implemented a Selenium-based automation script to detect and resolve email delivery failures, improving system reliabilityReduced manual administrative workload by approximately 30 hours per semester by automating processes for the Co-operative Education Services department	

PROJECTS

Live Interview Platform Live Demo GitHub	Dec 2025
<ul style="list-style-type: none">Built a full-stack MERN application enabling live coding interviews with real-time video and session managementImplemented backend services for authentication, code execution, and interview state persistenceTools Used: MongoDB, Express.js, React, Node.js, Tailwind CSS, Stream, Clerk	

YouTube Clone GitHub Personal Project	Aug 2024
<ul style="list-style-type: none">Designed a cloud-native backend using Google Cloud Run, Pub/Sub, and Storage buckets for scalable media workflowsTools Used: TypeScript, Next.js, Google Cloud Run, Pub/Sub, Storage buckets, Firebase Functions	

Honours Thesis: Black Hole Stability (MOTS) Thesis	Sep 2024 – Apr 2025
<ul style="list-style-type: none">Developed symbolic and numerical spectral methods to study MOTS stability in black hole spacetimesValidated eigenvalue computations against exact solutions, achieving relative errors as low as 10^{-5}Analyzed eigenvalue spectrum under parameter variation to identify critical stability transitions	