Rajveer Sodhi

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Education

Sc.M Computer Science at **Brown University**, Providence, RI — Sep 2025 - Present
B.Sc Computer Science Honours at **The University of British Columbia**, Kelowna, BC (GPA: 4.3) — Sep 2021 - May 2025
Awards: Dean's List (2021, 2022)*,* Deputy Vice Chancellor's Scholarship (2021), CMPS Undergraduate Award Nomination (2021)

Experience

Website Administrator / Niteo Africa, Kelowna, BC — Sep 2023 - Mar 2025
- Administered Niteo Africa's WordPress-based website, incorporating blog posts and event information, and diligently updating website plugins, increasing web traffic by 150% since assuming the role.
- Communicated concerns and insights to the Executive Director through detailed monthly reports to ensure regular progress.

Data Analyst Intern / Data POEM, Santa Clara, USA (Remote) — May 2024 - Sep 2024
- Developed scalable connector modules using Mage.ai to interface with PostgreSQL and S3, facilitating the retrieval and transformation of website analytics data from multiple advertisement channels for machine learning model pipelines.
- Focused on data validation and verification to ensure the integrity of machine learning models.

Undergraduate Researcher / UBC Okanagan, Kelowna, BC — Sep 2023 - Jul 2024
- Conducted a study in HCI with 20+ participants to investigate the efficiency of cutting-edge command selection techniques using head-mounted displays, such as Hand-Proximate User Interface (HPUI) and gaze-tracked input.
- Explored the principles of In-Vehicle Infotainment Systems and built implementations of HPUI with C# and the Unity XR Toolkit.

Software Developer Intern / UBC Okanagan, Kelowna, BC — Sep 2023 - Dec 2023
- Spearheaded the development of a module within a graphical Decision Support System in Java for long-term degree planning, which is expected to help over 10,000 students plan courses and streamline discussions with academic advisors.
- Added support for over 120 complex degree configurations and used Google CP-SAT Solver to build an optimization model for optimal plan generation, along with various code refactoring and improvements to the optimizer.

Projects

Mossum: Weather Visualization macOS App / **Swift, FastAPI, Redis, Render, SwiftData** — May 2025 - Present
- Shipped a macOS app that displays live, customizable weather animations on the desktop using SpriteKit and the WeatherKit API.
- Designed a FastAPI backend with Redis caching and versioned FAQ synchronization, enabling offline persistence via SwiftData.
- Reached 2,700+ downloads and 30+ weeks in the top weather app charts on the Mac App Store.

FlightBar: Flight Tracking macOS App / **Swift, FastAPI, Redis, Render** — Feb 2025 - Present
- Built a real-time flight tracker app backed by a FastAPI server with Redis caching to reduce latency and external API calls.
- Currently with 700+ downloads on the Mac App Store.

Full-Stack AI-Powered Budgeting Website / **Next.js, TypeScript, Plaid API, Gemini API, Pinecone, PostgreSQL** — Apr 2025
- Developed a full-stack budgeting platform for my final-year capstone to help users visualize and manage spending habits using AI-driven insights and a user context-aware chatbot powered by Gemini.
- Engineered a vector-based transaction retrieval system by embedding and storing user financial data from Plaid in Pinecone and PostgreSQL for fast, semantic querying.

Portfolio Website / **Next.js, TypeScript, Netlify** — Aug 2024
- Created a personal website showcasing my technical skills, projects, and work experience.
- Added iOS icon designs. Implemented the Stripe API for payments and deployed with Netlify.

E-Learning Platform / **Flask, JavaScript, MySQL** — Apr 2024
- Collaborated in developing a Flask-based full-stack e-learning platform, employing Agile methodologies, CI/CD practices, UML for system design, and Test-Driven Development (TDD) with Selenium for automated testing and deployment to ensure quality.
- Implemented core features, like user and course management, discussion portals, assignment submissions, and grading, with jQuery.

Skills

Languages: Swift, Python, JavaScript, TypeScript, Java, R
Tools: Tableau, Firebase, Android Studio, MySQL, PostgreSQL, Redis, Mage.ai
Web Development: TailwindCSS, Bootstrap, Flask, Next.js, React, Node.js, Express.js, Axios, FastAPI, jQuery, PHP
Frameworks & Libraries: Pandas, Seaborn, MatPlotLib, NumPy, JUnit, Keras, OpenCV, Selenium, SQLAlchemy, PrismaORM, Mongoose