

# 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: 4.30)

Sep 2021 - May 2025

**Awards:** Dean's List (2021, 2022), Deputy Vice Chancellor's Scholarship (2021), CMPS Undergraduate Award Nomination (2021)

## Experience

**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.

**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, resulting in a 150% increase in website viewership since assuming the role.
- Communicated concerns and insights to the Executive Director through detailed monthly reports to ensure regular progress.

**Undergraduate Researcher / UBC Okanagan**, Kelowna, BC

Sep 2023 - Jul 2024

- Conducted a study in Human-Computer Interaction (HCI) with over 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

**Weather Visualization macOS App / Swift, FastAPI, Redis, Render**

May 2025

- Developed a macOS app that displays live weather animations on the desktop.
- Features customizable weather effects, including rain and snow, using data from the WeatherKit API.
- Implemented a FastAPI server for the backend with Redis caching.

**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.

**Flight Tracking macOS App / Swift, FastAPI, Redis, Render**

Feb 2025

- Developed a macOS menubar app using Swift that displays real-time flight data from the Aviation-Edge API
- Implemented a FastAPI server for the backend with Redis caching.

**Portfolio Website / Next.js, TypeScript, Netlify**

Aug 2024

- Created a personal website showcasing my technical skills and work experience. Also added a page showcasing 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:** Java, Python, R, C#, Kotlin, JavaScript, TypeScript, Swift

**Tools:** Unity, Tableau, Firebase, Android Studio, MySQL, MongoDB, PostgreSQL, Postman, Redis, Mage.ai, S3, Postman

**Web Development:** Tailwind CSS, 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