

Manav Juthani

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EDUCATION

Simon Fraser University

Bachelor of Science in Data Science

Vancouver, BC

September 2020 – Present

- Data Structures and Algorithms, Introduction to Software Engineering, Operations Research, Database Systems, Data Communications and Networking

WORK EXPERIENCE

Software Engineer Intern

Boast AI

January 2025 – May 2025

Vancouver, BC

- Enhanced AI Prompts using Vertex AI by evaluating multiple LLM's and optimizing prompt engineering logic to reduce hallucinations and improve output accuracy by 90%
- Integrated bulk update features in a React based tax credit classification portal, reducing time spent on large scale data categorization for Technical Solutions Managers.
- Eliminated 500+ ESLint errors from the codebase to improve code readability and maintainability.
- Designed and improved modular, reusable frontend components using Ant Design, contributing to a cleaner, more intuitive user interface.
- Automated client invoicing and notifications for the finance team using Power Automate to reduce manual data processing by 10+ hours a month.
- Created a annual R&D spending dashboard using Power BI and SQL, delivering insights presented directly to the CTO and CFO to inform on engineering and product management decisions.

Data Science Tutor

Burnaby, BC

Sep. 2023 – Dec. 2023

- Provided one-on-one tutoring sessions in various computer science subjects such as programming, discrete mathematics, and data structures
- Assisted students in exam preparation and assignments, while monitoring progress and giving constructive feedback

PROJECTS

PomoTimer | *HTML/CSS, JavaScript*

April 2024

- Created a full-stack productivity web app in order for users to enjoy a seamless study experience
- Integrated authentication services from Auth0 to prioritize user data security and ease of access, leading to a more streamlined experience
- Utilized SQLite to monitor user session times, tasks, and completion status to display updated data for the user

Budget Tracker | *Python*

January 2024

- Built a personal budget tracker that automated finance spreadsheet updates using openpyxl and leveraged the OpenAI API to classify transactions for visual insights
- Enabled actionable financial insights which led to a 20% reduction in monthly spending

Multithread Shell Messenger | *C*

February 2024

- Created a messaging system allowing users on separate terminals to interact.
- Utilized datagram sockets for capturing and persisting user data.
- Ensured robust error handling and efficient resource management to maintain stable communication.

TECHNICAL SKILLS

Languages: Python, R, TypeScript, JavaScript, C/C++, HTML/CSS, SQL, Swift

Frameworks: React.js, Node.js, Selenium

Platforms and Tools: Git, PostgreSQL, Linux, Power BI, Power Automate, Metabase, OAuth 2.0, PyCharm, Git, Jira