

Vaibhav Sharma

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EDUCATION

University of British Columbia

Bachelor of Science in Computer Science and Statistics

Vancouver, BC

Expected May 2027

- **Relevant Courses:** Systematic Program Design, Algorithms and Data Structures, Object-Oriented Programming, Computer Systems, Applied Linear Algebra, Data Science, Intermediate Algorithm Design, Relationships in Data.
- **Awards/Activities:** HackTheNorth 2024 - Best Codegen Project, HackTheNorth 2023 - Best Use of MongoDB, Euclid Mathematics Award (Gold Medalist), Technical Director (UBC eProjects), Software Developer (UBC Launchpad).

EXPERIENCE

Software Developer Co-op

Royal Bank of Canada

Sep. 2025 – Aug. 2026

Toronto, ON

- Incoming Co-op on the RBCx Ventures Technology Team at Houseful.ca, delivering innovative features using AWS, Kotlin, ReactJS, and Postgres to enhance the real estate experience.
- Contributing to a cloud-based platform development in an agile environment by building critical software components.

Data Engineer Co-op

Fraser Health Authority

May. 2025 – Aug. 2025

Vancouver, BC

- Developed ETL pipelines using SSMS, SSIS, Git, Oracle SQL Developer, Microsoft Fabric and Visual Studio to integrate data from **20+ sources** into the enterprise Data Lake.
- Backfilled 11 years of historical data-including **3B+ records across 200+ tables** for data modernization to the cloud.
- Optimized **15+ SQL queries** and automated integrity checks with Python reducing manual reporting time by **70%**.

Software Developer

UBC LaunchPad

Sep. 2024 – Aug. 2025

Vancouver, BC

- Contributed in a **20-member team** using Agile methodologies to develop a CRM for a non-profit organization (500 users) utilizing Express (TypeScript), React, and SQL.
- Integrated site-wide authentication utilizing OAuth 2.0, JWT, and Context API. Engineered a 4-stage CI/CD pipeline with Docker, GitHub Actions, and tmux, deploying the backend API on an **AWS EC2 with NGINX** configuration.

DevOps Intern, MLH and Meta

Major League Hacking

Jun. 2024 – Sep. 2024

New York (Remote)

- Orchestrated deployment on a Digital Ocean VPS running CentOS Linux and established a CI/CD pipeline using GitHub Actions, Docker, and shell scripting, automating **~100%** of the deployment process.
- Configured Prometheus alerts with Discord webhooks to manage **20+** real-time notifications, and designed a Grafana dashboard to monitor uptime and performance.

PROJECTS

LLM Pro Max [🔗](#) | *Hack the North 2024 Winner*

Sep. 2024 – Sep. 2024

- Designed and implemented a codebase chunking algorithm and visualized using Pyvis and FastAPI that reduced token usage by **40%**, enabling LLMs to process complex projects efficiently without surpassing the token limit.
- Implemented Retrieval-Augmented Generation (**RAG**) techniques with vector search, improving the AI chatbot response relevance to achieve a **90% accuracy rate** when retrieving information from GitHub repositories.

Booksy [🔗](#) | *AI Storytelling Platform (TreeHacks 2025)*

Feb. 2024

- Built an AI-powered platform enabling families to create, illustrate, and narrate stories in real-time using **Llama-70B (Groq)**, **LumaLabs Photon**, and **ElevenLabs**, with a React and Node.js stack and real-time sync via **WebSockets**.
- Served **350+ sessions** during TreeHacks with **92% positive feedback**, praised for front-end and AI voice interaction; handled full-stack and AI integration roles.

HonkHonkHire [🔗](#) | *Hack the North 2023 Winner*

Sep. 2023 – Sep. 2023

- Integrated Google API and MediaPipe, achieving **30%** faster processing and improving speech and facial detection accuracy by **40%** in an AI-powered interview preparation app that analyzes LinkedIn profiles and resumes, generates tailored questions, and provides feedback.
- Utilized OCR Space's API for universal resume parsing and Cohere-AI's Completion API, reducing processing time by **25 seconds** per application.

[See 33 more projects 🔗](#)

TECHNICAL SKILLS

Languages: JavaScript, Python, Java, Kotlin, UML, C++, C, C#, SQL, TypeScript, Swift, HTML/CSS, Go, Bash, YAML

Frameworks/Libraries: React, Next.js, NodeJS, Express, Angular, Flask, Tailwind, JUnit, Django, numpy, pandas

Databases: MongoDB, MySQL, SSMS, Supabase, Firebase, SQLite, MariaDB, CockroachDB, PostgreSQL

Tools: Git, AWS (EC2, S3, Lambda, DynamoDB, Amplify, RDS, CloudWatch), GCP, Azure, Docker, Kubernetes, Linux, NGINX Proxy, Jenkins, Grafana, Prometheus, Splunk, VSCode

Extras: Excel, Word, Outlook, Figma, REST APIs, Tableau, PowerBI, Scrum board, JSON, Powershell, UNIX