

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, Statistical Analysis, Operating Systems, Distributed Systems, Applied Linear Algebra, Intermediate Algorithm Design.

- **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 and Devops Co-op

Sep. 2025 – Present

Royal Bank of Canada

Toronto, ON

- Migrated logging from Datadog to Splunk, Prometheus, and Dynatrace, improving system observability for 10+ services.
- Supported AWS/Terraform/Kubernetes (EKS) infrastructure migration, reducing deployment time by ~30% via CI/CD pipelines (GitHub Actions).
- Engineered React and Kotlin components integrated with RDS, RabbitMQ, Redis, and Twilio.

Data Engineer Co-op

May. 2025 – Aug. 2025

Fraser Health Authority

Vancouver, BC

- Developed ETL pipelines using SSMS, SSIS (C#), 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.

Software Developer

Sep. 2024 – Aug. 2025

UBC LaunchPad

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.

Production Engineering Fellow, MLH and Meta

Jun. 2024 – Sep. 2024

Major League Hacking

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. 2025 – Feb. 2025

- 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 for natural language processing, 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