

# 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

### Co-Founder

SetDM AI

Dec. 2025 – Present

Vancouver (Remote)

- Launched an AI-driven Instagram DM automation SaaS, orchestrating **10,000+ real-time conversations** across **7+ client workspaces**, generating **CAD \$2,500+ revenue** within **1.5 months**.
- Architected a real-time messaging and scheduling pipeline using Socket.io, **BullMQ**, and **Redis (Upstash)** with **1000+ delayed/follow-up jobs** and multi-part message chunking, ensuring zero message loss under high load.
- Designed a deterministic conversation state machine with AI-based **intent classification**, **confidence scoring**, and **20+ automated actions (OpenAI)** to autonomously qualify leads, handle objections, and schedule calls.
- Implemented a multi-tenant platform with **role-based access control**, workspace-level AI configuration, and data persistence in **MongoDB** for **20,000+ messages**; used **Appwrite storage**, and **Cloudinary** for media processing.

### Software Developer & DevOps Co-op

Royal Bank of Canada

Sep. 2025 – Present

Toronto, ON

- Owned observability migration for **30+ microservices** from Datadog to Dynatrace and Splunk, building **60+ monitors** integrated with Slack and PagerDuty.
- Built centralized dashboards for **10+ system metrics and RabbitMQ DLQs**, improving incident triage and root-cause analysis; served **3 weeks in a 24/7 on-call** rotation.
- Improved reliability and security by adding Kubernetes **CronJobs**, DAST scans across **10+ services**, fixing **60+ depend-abot vulnerabilities**, enforcing PII masking, and developing services using AWS (RDS, S3), Twilio, Kotlin, and React.

### Production Engineering Fellow

Major League Hacking and Meta

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. 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, 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