

Vaibhav Sharma

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EDUCATION

University of British Columbia

Vancouver, BC

Bachelor of Science in Statistics (Thematic Concentration in Computer Science)

Expected May 2027

- **Relevant Courses:** Algorithms and Data Structures, Object-Oriented Programming, Computer Systems, Applied Linear Algebra, Data Science, Statistical Inference, Statistical Modelling, Relationships in Data.
- **Awards:** HackTheNorth 2024 - Best Codegen Project (**\$1500**), HackTheNorth 2023 - Best Use of MongoDB (**\$500**), Pro-duHacks (**Best MVP Award**), Euclid Mathematics Award (**Gold Medalist**).

EXPERIENCE

Site Reliability Engineer Intern, MLH x Meta

Jun. 2024 – Sep. 2024

Major League Hacking

New York (Remote)

- Created a full-stack portfolio website using Flask, SQL, and FastAPI, showcasing technical projects and skills.
- Deployed the project on a Digital Ocean VPS running CentOS Linux and set up a CI/CD pipeline using GitHub Actions, Docker, and bash scripts, **automating ~100% of the deployment process**.
- Set up Prometheus alerts with Discord webhooks, managing **20+ real-time alerts**, and built a Grafana dashboard to track uptime and performance.

Software Developer & IT Specialist (Work Learn)

May 2024 – Aug. 2024

Department of Chemistry, UBC

Vancouver, BC

- Migrated the ticketing platform from VanillaJS to React, **reducing loading time by 55%**, and implemented unit/integration tests, achieving **80% test coverage**.
- Created a TA Scheduling app using SQL, React, and NodeJS, deployed on a CentOS server with Apache, automating the manual scheduling process and **saving over 10 hours per week**.

Software Developer

Sep. 2024 – Aug. 2025

UBC LaunchPad

Vancouver, BC

- Collaborated 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.
- Implemented site-wide authentication using OAuth 2.0, JWT, and Context API. Designed a **4-stage CI/CD pipeline with Docker, GitHub Actions, and tmux**, deploying the application on **AWS EC2 with NGINX** configuration.

Full Stack Web Developer

Sep. 2023 – Apr. 2024

Combined Major in Science Student Association

Vancouver, BC

- Managed a team of **7 members** to design and develop the club's website using React, Next.js, and TypeScript, improving **user engagement by 39%** within the first month.
- Revamped the club's promotional website using HTML, CSS, and JavaScript, integrating **Three.js, Vanta.js, GSAP, jQuery, Tailwind CSS, and Motion** to enhance interactivity and performance.

PROJECTS

LLM Pro Max [🔗](#) | *HackTheNorth 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.

ByeClicker [🔗](#) | *Personal Project with 2000+ users*

Jul. 2023 – Feb. 2024

- Maintained a robust user base of **2,400 users across 50+ countries** with **500 Monthly Active Users** and a **21% returning user rate**, demonstrating effective engagement strategies and user satisfaction.
- Reverse-engineered the iClicker algorithm using only **network interception and Chrome DevTools** to develop an optimized solution. Leveraged **MutationObservers** to monitor UI change and execute scripts for a seamless workflow.

HonkHonkHire [🔗](#) | *HackTheNorth 2023 Winner*

Sep. 2023 – Sep. 2023

- Integrated Google APIs 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, UML, C++, C, SQL, TypeScript, HTML/CSS, R, Dart, Bash

Frameworks: React.js, Node.js, Express.js, Flask, Kafka, Bootstrap, Tailwind, JUnit, Flutter, Three.js

Databases: MongoDB, MySQL, Supabase, SQLite, CockroachDB, Redis

Tools: Git, AWS, GCP, Azure, Firebase, Docker, Kubernetes, Terraform, Linux, NGINX, Postman, Apache, Grafana, Prometheus