

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:** Systematic Program Design, 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)

- Engineered a full-stack portfolio leveraging Flask, SQL, and FastAPI to effectively showcase technical projects and skills.
- Orchestrated deployment on a Digital Ocean VPS running CentOS Linux and established a CI/CD pipeline using GitHub Actions, Docker, and bash scripts, 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.

Software Developer & IT Specialist

May 2024 – Aug. 2024

Department of Chemistry, UBC

Vancouver, BC

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

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 application on an AWS EC2 with NGINX configuration.

Full Stack Web Developer

Sep. 2023 – Apr. 2024

Combined Major in Science Student Association

Vancouver, BC

- Directed a team of 7 members in designing and developing the club's website using React, Next.js, and TypeScript, achieving a 39% increase in user engagement 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, on a chrome extension streamlining iClicker engagement through automation.
- 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/Libraries: React.js, Node.js, Express.js, Flask, Tailwind, JUnit, Flutter, Three.js, numpy, pandas

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

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