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
- **Awards**: HackTheNorth 2024 - Best Codegen Project ($1500), HackTheNorth 2023 - Best Use of MongoDB ($500), ProduHacks (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

- Migrated the ticketing platform from VanillaJS to React, reducing loading time by **55%**, and implemented unit/integration tests, achieving **80%** test coverage.
- 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.

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**, 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