Vaibhav Sharma

+1-604-841-3588 | vs301vs@gmail.com | linkedin.com/in/v-sharma03 | github.com/gigabite-pro | vaibhavsharma.me

EDUCATION

University of British Columbia — Vancouver, BC
Bachelor of Science in Computer Science and Statistics — 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/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

Data Engineer Co-op — May. 2025 – Aug. 2025
Fraser Health Authority — Vancouver, BC

- Incoming co-op on the CAADSI team, contributing to ETL development, data modeling, and quality assurance to strengthen the healthcare data infrastructure.
- Leveraging Azure DevOps for scalable data storage and optimize cloud storage strategies for data pipeline integration.

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.

Site Reliability Engineer Intern, MLH and 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 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.

Software Developer & IT Specialist — May. 2024 – Sep. 2024
Department of Chemistry, UBC — Vancouver, BC

- Developed a TA Scheduling app using SQL, React, and NodeJS; deployed on a linux server with Apache HTTP 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.

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.

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 ↗ | *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, 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, GoLang, Swift, Bash, YAML
Frameworks/Libraries: React, NodeJS, Express, Angular, Flask, Tailwind, JUnit, SAPUI5, Three.js, numpy, pandas
Databases: MongoDB, MySQL, Supabase, Firebase, SQLite, MariaDB, CockroachDB, PostgreSQL, DynamoDB, Redis
Tools: Git, AWS (EC2, S3, Lambda, RDS), GCP, Azure, Docker, Kubernetes, Linux, Terraform, NGINX, Jenkins, Grafana, Prometheus, VSCode
Extras: Excel, Word, Outlook, Figma, Adobe tools, Tableau, PowerBI, Powershell, UNIX