

# Vaibhav Sharma

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## TECHNICAL SKILLS

**Languages:** JavaScript, Python, Java, C++, SQL, TypeScript, HTML/CSS, R, Dart, Bash  
**Frameworks:** React.js, Node.js, Express.js, Flask, Bootstrap, Tailwind, JUnit, Flutter  
**Databases:** MongoDB, MySQL, Supabase, SQLite, CockroachDB, Redis  
**Tools:** Git, AWS, Google Cloud, Microsoft Azure, Firebase, Docker, Linux, NGINX, Grafana, Prometheus

## EDUCATION

**University of British Columbia** Vancouver, BC  
Bachelor of Science, Statistics (Thematic Concentration in Computer Science) Expected May. 2027

- **Major GPA:** 3.33/4.33
- **Courses (%/average):** Differential Equations (94%/85%), Data Science (92%/81%), Algorithms and Data Structures (84%/76%), Statistical Inference (83%/74%), Matrix Algebra (79%/74%), Systematic Design (79%/77%).
- **Awards:** HackTheNorth 2024 - Best Codegen Project (**\$1500**), HackTheNorth 2023 - Best Use of MongoDB (**\$500**), Pro-duHacks (**Best MVP Award**), Euclid Mathematics Award (**Gold Medalist**).
- **Activities and societies:** Software Developer at UBC Launchpad (Design Team), Mentor and Judge at **HackCamp**, **nwHacks**, & **BCS Hacks**, Orientation Leader 24W, Web Developer at Combined Major in Science Student Association.

## EXPERIENCE

**Site Reliability Engineer Intern, MLH x Meta** Jun. 2024 – Sep. 2024  
Major League Hacking New York (Remote)

- Received acceptance into the MLH Fellowship, sponsored by Meta, with an acceptance rate of **less than 2.5%**.
- Deployed a project on a Digital Ocean VPS running CentOS Linux and set up a CI/CD pipeline using GitHub workflows, 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** May. 2024 – Aug. 2024  
Department of Chemistry, UBC Vancouver, BC

- Built a system for tracking queries and generating Excel invoice reports, **improving ticket response time by 30%**.
- Migrated the platform to React, **reducing loading time by 55%**, and implemented unit/integration tests, achieving a **25% decrease in post-release bugs**.
- Created a TA Scheduling app using SQL, Express, React, and NodeJS, deployed on a CentOS server with Apache, **enhancing scheduling efficiency by 15%**.

## PROJECTS

**LLM Pro Max** [🔗](#) | *HackTheNorth 2024 Winner* Sep. 2024 – Sep. 2024

- Designed and implemented a codebase chunking algorithm that **reduced token usage by 40%**, enabling LLMs to process complex projects efficiently without surpassing the token limit.
- Built an interactive dependency graph using Pyvis and FastAPI, improving codebase comprehension and **debugging time by 30%**, facilitating better context for LLM responses.
- Implemented advanced Retrieval-Augmented Generation (RAG) techniques that increased chatbot **response relevance by 25%**, **achieving 95% query accuracy** when retrieving information from GitHub repositories.

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

- Led a collaborative team to develop a MongoDB-awarded full-stack web app, showcasing strong teamwork through efficient task coordination and open communication.
- Integrated Google's APIs and MediaPipe, achieving **30% faster processing** and **40% higher accuracy** for speech and facial detection, enhancing app performance and user satisfaction.
- Leveraged OCR Space's API for universal resume detection and Cohere-AI's Completion API, **reducing processing time by 25 sec./application**.

**ByeClicker** [🔗](#) | *Personal Project with 2000+ users* Jul. 2023 – Feb. 2024

- Created a Chrome extension that streamlined iClicker engagement for approximately **2,400 users across 50+ countries**, enhancing attendance management and user participation through automation.
- Maintained a robust user base with **500 Monthly Active Users** and a **21% returning user rate**, demonstrating effective engagement strategies and user satisfaction.
- Integrated features that favored the most frequently chosen answers, ensuring users achieved **~99% accuracy in their responses**, increasing confidence and engagement during iClicker polls.