

Vaibhav Sharma

3rd Year, Statistics

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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

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.

EDUCATION

University of British Columbia

Vancouver, BC

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

Expected May. 2026

- 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.