Vaibhav Sharma

3rd Year, Statistics

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TECHNICAL SKILLS

Languages: JavaScript, Python, Java, UML, C++, 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, GCP, Azure, Firebase, Docker, Kubernetes, Linux, NGINX, Grafana, Prometheus

EXPERIENCE

Site Reliability Engineer Intern, MLH x Meta   Jun. 2024 – Sep. 2024
Major League Hacking   New York (Remote)
- Created a full-stack portfolio website using Flask, SQL, and FastAPI, showcasing technical projects and skills.
- Deployed the project on a Digital Ocean VPS running CentOS Linux and set up a CI/CD pipeline using GitHub Actions, 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
- **Improved ticket response time by 30%** by developing a system for tracking and generating Excel invoice reports.
- Migrated the platform from VanillaJS to React, **reducing loading time by 55%**, and implemented unit/integration tests, achieving **80% test coverage**.
- Created a TA Scheduling app using SQL, React, and NodeJS, deployed on a CentOS server with Apache, automating the manual scheduling process and **saving over 10 hours per week**.

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 Retrieval-Augmented Generation (RAG) techniques, improving 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
- Created a Chrome extension streamlining 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% correctness in their responses**, increasing confidence during iClicker polls.

HonkHonkHire ↗ | *HackTheNorth 2023 Winner*   Sep. 2023 – Sep. 2023
- Spearheaded the development of a full-stack web app, **recognized with a MongoDB award**, by **leading a team of 4** through streamlined task coordination and communication.
- Integrated Google APIs and MediaPipe, enhancing app performance by achieving **30% faster processing** and improving speech and facial **detection accuracy by 40%**.
- Utilized OCR Space's API for universal resume parsing and Cohere-AI's Completion API, **reducing processing time by 25 seconds per application**.

See 30 more projects ↗

EDUCATION

University of British Columbia   Vancouver, BC
Bachelor of Science in Statistics (Thematic Concentration in Computer Science)   Expected May 2027
- **Relevant Courses**: Algorithms and Data Structures, Software Construction, 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)**, ProduHacks **(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.

UBC Science Co-op   science.coop@ubc.ca | 604-822-9677