Vaibhav Sharma

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EDUCATION

University of British Columbia — Vancouver, BC
Bachelor of Science, Statistics — Expected Apr. 2026

- Participated in **20+ Hackathons**, Winner at **HackTheNorth 2023**, Winner at **ProduHacks 2024**, Mentored at **HackCamp, nwHacks, & BCS Hacks;** CSSS (Computer Science Student Society) Member
- **Relevant Courses**: Software Construction, Algorithms & Data Structures, Intro to Data Science

EXPERIENCE

SRE Intern, MLH x Meta — Jun. 2024 – Present
Major League Hacking — Vancouver, BC

- Collaborated with a team of 15 members and 2 **Meta mentors** to develop a web app using **Flask** and **MySQL**.
- Authored comprehensive unit tests for teammates using the **unittest** library, ensuring more than **95% test coverage** for frontend page rendering and backend database operations.
- Deployed the project on a **Digital Ocean VPS** running **CentOS** Linux and set up a **CI/CD pipeline** for automated deployment using **GitHub workflows, Docker, and bash scripts.**
- Setup an alert system using **Prometheus** and **Discord webhooks**, and created a **Grafana dashboard** to monitor the website's health.

Software Developer — May. 2024 – Aug. 2024
Department of Chemistry, UBC — Vancouver, BC

- Created an inventory and ticketing system for the shops to track queries and generate Excel invoice reports.
- Migrated the platform to React, **decreasing loading time by 55%**. Implemented unit and integration testing resulting in a **25% reduction in post-release bugs.**
- Built a TA Scheduling app with various forms and an Admin panel using **SQL, Express, React, and NodeJS.**
- Deployed both projects on a **CentOS** server using **Apache with DNS configuration** and server-side routing.

PROJECTS

Portfolio ↗ | *React, React-3-Fiber, Three.js, Spline, Moment.js* — Mar. 2024 – Mar. 2024

- Crafted with cutting-edge technology, the website offers an immersive 3D room model within a Macbook, integrating smooth camera animations powered by **react-spring and Tween.js** to enhance user interaction.
- Integrated **Spotify API** to fetch and display my current favorite song, adding a personalized touch to the user experience, while leveraging optimized **React components and hooks** for enhanced website performance.
- Meticulously optimized lighting and textures ensure a seamless browsing experience, resulting in a **15% increase in website performance and reduced load times**, underscoring a commitment to user satisfaction.

HonkHonkHire ↗ | *Express.js, MongoDB, Google Cloud Platform, Firebase, CohereAI* — 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 text detection, facilitating recognition of resumes in any format, alongside **Cohere-AI's Completion API** for efficient question generation and answer analysis.

superT3 ↗ | *Java, Advanced OOPs, Swing, JUnit, JSON* — Feb. 2023 – Apr. 2023

- Designed and developed an advanced **ultimate tic-tac-toe game** featuring nested grids within a larger grid.
- Implemented a game **state- saving/loading** mechanism using **JSON**, allowing users to resume their games.
- Crafted a pleasing user interface using **Swing** with carefully chosen contrasting colors for enhanced accessibility.
- Conducted comprehensive unit testing of the game using **JUnit**, ensuring thorough coverage of all functions and scenarios.

TECHNICAL SKILLS

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