Vaibhav Sharma

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EDUCATION

University of British Columbia — Vancouver, BC
Bachelor of Science in Computer Science and Statistics — Expected May 2026
- **Relevant Courses**: Algorithms and Data Structures, Object-Oriented Programming, Computer Systems, Applied Linear Algebra, Data Science, Statistical Inference, Statistical Modelling, Relationships in Data.

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**.

Software Developer — May 2024 – Aug. 2024
Department of Chemistry, UBC — Vancouver, BC
- Migrated the ticketing 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**.

Software Developer — Sep. 2024 – Aug. 2025
UBC LaunchPad — Vancouver, BC
- Implemented site-wide authentication using OAuth 2.0, JWT, and Context API. Designed a **-stage CI/CD pipeline with Docker, GitHub Actions, and tmux**, deploying the application on **AWS EC2 with NGINX** configuration.
- Collaborated in a **20-member team** using a **Kanban workflow** to develop a CRM for a non-profit organization (500 users) utilizing Express (TypeScript), React, and SQL.

Web Developer/Marketing Director — Sep. 2023 – Apr. 2024
Combined Major in Science Student Association — Vancouver, BC
- Managed a team of **7 members** to design and develop the club's website using React, Next.js, and TypeScript, improving **user engagement by 39%** within the first month.
- Revamped the club's promotional website using HTML, CSS, and JavaScript, integrating **Three.js, Vanta.js, GSAP, jQuery, Tailwind CSS, and Motion** to enhance interactivity and performance.

Software Developer Freelance — Jun. 2023 – Sep. 2023
Apptom Electronics Pvt. Ltd. — Remote
- Developed frontend and implemented backend API for chat application, seamlessly integrating with **Socket.io, Express.js, Moment.js**, and MongoDB for efficient data management.
- Hosted the platform on **cPanel** and **WHM hosting service**, including DNS configuration for optimal accessibility.
- Engineered the backend infrastructure for **Google Authentication** and **Google Meet generation**, employing the **Google Cloud Platform**, MongoDB, and Moment.js to ensure secure and efficient functionality.

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** with vector search, 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
- Maintained a robust user base of **2,400 users across 50+ countries** with **500 Monthly Active Users** and a **21% returning user rate**, demonstrating effective engagement strategies and user satisfaction.
- 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.

See 30 more projects ↗

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, Kafka, Terraform Linux, NGINX, Apache