VIKRAMJEET SINGH

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Technical Skills

Languages: Python, Java, SQL, HTML5, CSS, JavaScript, TypeScript, XML, YAML, C
Developer Tools: Github, Gitlab, Bitbucket, Docker, Jira, PostgreSQL, MongoDB, GCP, AWS, Excel, Mermaid charts
Frameworks & OS: Spring Boot, NextJS, ReactJS, ThreeJS, NodeJS, Flask, JUnit, Jest, LINUX, Windows, MaxOs
Support & Operations: Splunk, DataDog, Dynatrace, ActiveBatch, BMC Control-M, ITIL(ServiceNow, Remedy)

Work Experience

TechSwapZone   **May 2024 – Aug 2024**
Full Stack Developer Intern   *Cambridge, ON*
- Engineered **scalable user profiles and interactive dashboards** using **React.js (TypeScript)** and **Spring Boot (Java)**, boosting core application functionality by **15%**.
- Optimized backend service deployment by **20%** leveraging **Firebase** for secure authentication and **MariaDB** for robust data persistence, enhancing system stability.
- Implemented an **AI chatbot** via **Google Gemini API**, addressing common queries and cutting service agent dependency by **25%**, demonstrating a **continuous service improvement mindset**.
- Streamlined development and reduced deployment time by **30%** through **Docker containerization** and optimizing **CI/CD pipelines**, contributing to **efficient application updates** and **post-release checkouts**.

TechSwapZone   **May 2023 – Aug 2023**
Frontend Developer Intern   *Cambridge, ON*
- Drove **15% user engagement increase** by re-engineering **3+ UI components** using **React.js** and **Tailwind CSS**.
- Improved **user retention** and **organic traffic** by optimizing codebase, cutting load times **20%** by implementing **lazy loading** and **code-splitting**, boosting SEO **2 positions**.
- Implemented **unit tests** using **React Testing Library** and **Jest**, increasing code coverage by **15%** on **SonarQube**, significantly **reducing regressions** and ensuring **application reliability**.
- Migrated **jQuery-based** legacy interfaces to **React.js**, improving performance by **25%** and enhancing **maintainability for long-term support**.

Mathnasium   **Aug 2023 – Present**
Programming/Math Instructor   *Guelph, ON*
- Instructed **15+ students** in fundamental web development with **HTML**, **CSS**, and **JavaScript** creating **5+** projects, fostering practical application skills.
- Mentored **20+ students** in **Python** (including arrays) and **SQL**, improving **problem-solving abilities** and database understanding by **20%**, demonstrating strong **communication and analytical skills**.

Projects

Prepwise | *Website*   **Next.js | Firebase | Google Gemini | Vapi AI**
- Developed **AI-driven interview platform** with **Next.js** and **Firebase**, integrating **Google Gemini** for **AI voice agents** and instant feedback, enhancing UX for potential **100+ users**.
- Implemented **core features** (authentication, interview creation, dashboard) ensuring a responsive, modern UI/UX

Apaline EcoLens   **React | Spring Boot | MariaDB | Docker | Jest | JUnit | CI/CD**
- Developed **EcoLens**, a **React/Spring Boot** compliance dashboard monitoring real-time wastewater emissions via diverse datasets of **10000+ enteries** and geospatial maps.
- Leveraged **Jest/React-testing library**, **JUnit/Mockito**, **pytest**, and **SQL scripts** for isolated, service-to-service, and full-stack testing. Ensuring functionality, API interactions, and data integrity.

8 Ball Pool (2 Player)   **C | Python | SWIG | CSS | JavaScript**
- Developed **2-player 8 Ball Pool game** with **C** for physics simulation, interfaced via **SWIG** to a **Python** web server.
- Built interactive frontend with **CSS/JavaScript** and handling **10+ complex edge cases** for realistic gameplay, demonstrating strong **problem-solving** and **attention to detail**.

Education

University of Guelph   **Apr 2025**
*Bachelor of Computing, Honors Major in Computer Science **GPA: 3.5/4.0***   *Guelph, ON*