VIKRAMJEET SINGH

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Vj-portfolio.vercel.app

Technical Skills

Languages: Python, Java, SQL, HTML5, CSS, JavaScript, TypeScript, C

Developer Tools & FrameWorks: Git, Docker, Jira, Spring Boot, PostgreSQL, NextJS, ReactJS, ThreeJS, NodeJS

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.
- Implemented an **AI chatbot** via **Google Gemini API**, addressing common queries and cutting service agent dependency by **25%**, reducing operational costs.
- Streamlined development and reduced deployment time by **30%** through **Docker containerization** and optimizing **CI/CD pipelines** for continuous delivery.

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**, reducing regressions
- Migrated **jQuery-based** legacy interfaces to **React.js**, improving performance by **25%** and enhancing maintainability

Mathnasium   **Aug 2023 – Present**
Programming/Math Instructor   *Guelph, ON*

- Instructed **15+ students** in fundamental web development with **HTML**, **CSS**, and **JavaScript** creating **5+** projects.
- Mentored **20+ students** in **Python** (including arrays) and **SQL**, improving problem-solving abilities and database understanding by **20%**.

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) with **Tailwind CSS**, ensuring a responsive, modern UI/UX across **all devices**.

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 and geospatial maps.
- Implemented **robust testing** (**Jest, JUnit**) across **4 Docker containers** with **MariaDB** and **CI/CD**, reducing defects and deployment time by **15%**.

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.

Education

University of Guelph   **Apr 2025**
Bachelor of Computing, Honors Major in Computer Science   *Guelph, ON*

- **GPA: 3.5/4.0**.