Vivek Patel

Contact: (919) 799-1190 **|** vivekdharmendrabhai.patel@phoenix.edu **|** [Portfolio](#) | [LinkedIn](#) | [GitHub](#)

WORK EXPERIENCE

Software Engineer II*, University of Phoenix, Inc.*   May 2023 - Current

- Engineered robust and responsive components using **Next.js** and **JavaScript** for **Adobe AEM**, ensuring compliance with Americans with Disabilities Act (ADA) standards and implementing **SEO best practices**.
- Created a new site search component using **React.js**, implemented **pagination** and **search category features**.
- Developed a **microservice** for storing PAC data, utilizing **Spring Boot**, **Elasticsearch**, and **Redis**. Implemented **event streaming architecture (CQRS)** for efficient data handling and processing.
- Orchestrated deployment of the microservice using AWS services, including Code Pipelines for **CI/CD**, **EKS** cluster, **S3** for storage, and **MSK** for managed **Kafka**. Implemented an **MSK-connector** to streamline data flow from topics to the data lake.

Software Development Intern*, HackerRank*   January 2022 - June 2022

- Optimized cloud-based Integrated Development Environment by refactoring **Theia extensions**, resulting in a **30% efficiency improvement** for code editing and compilation processes.
- Engineered a **terminal collaboration** feature using **Dockerized containers** and **WebSockets**, achieving **sub-120 ms latency**. This enhancement provided recruiters with real-time insights into candidates' coding practices, significantly improving the assessment process.
- Spearheaded the development of a **real-time commenting feature** for an engineering diagram tool, utilizing **React.js**, **TypeScript**, **Socket.io**, and **Ruby on Rails**. This initiative boosted team productivity by enabling instant feedback.

Software Engineer Intern*, 100ms.live*   April 2021 - June 2021

- Developed a **customizable video conferencing Node.js package** tailored to customer preferences, implementing user onboarding flow and comprehensive analytics in the company dashboard.
- Optimized deployment infrastructure using **Vercel**, **Django**, and **AWS**, reducing application deployment time to **under 3 seconds** and enhancing overall user experience.

EDUCATION

Arizona State University, Tempe, AZ   August 2022 - May 2024
Master in Computer Science   **Grade: 4.0**

Related Courses: Cloud Computing, Software Design, Software Security, Data Visualization, Human-Computer Interaction

Pandit Deendayal Energy University   August 2018 - May 2022
Bachelor of Technology in Computer Engineering   **Grade: 3.8**

PROJECTS   *[All Projects](#)*

VsCode extension for Browser Compatibility - *2000+ installs*   *[GitHub](#)*

- Published an extension to assist developers in verifying browser compatibility for CSS, **enhancing coding efficiency**.
- Displays **compatibility information** in IDE upon hovering over CSS elements, significantly reducing need for manual checks.
- Algorithm searches open-sourced Mozilla data, aiding developers in avoiding unstable and obsolete CSS syntax.

Web Simulation of Ubuntu Operating System - *1,00,000+ unique users*   *[GitHub](#)*

- Innovated a virtual simulation of Ubuntu OS utilizing **Next.js** for server-side rendering and **Tailwind CSS**.
- Deployed using **Vercel's** continuous delivery network, gaining over **1,000,000 page views**, and over **3800 stars** on GitHub.

[GitHub](#)

Data Visualizer for Ohio city's business and citizen data

- Developed a data visualization tool to highlight key insights about citizens' characteristics and predominant business base in an Ohio city.
- Utilized **React**, **Material UI**, **D3.js**, and **PostgreSQL** to process and display 22GB of municipal data, enabling data-driven decision-making for city planners and policymakers.

[GitHub](#)

Code Connect: Online Interviewing Tool

- An integrated interview platform featuring real-time video meetings, online multi-language code compiler, and collaborative whiteboard for seamless technical interview experiences, built using **React**, **Express.js**, **Socket.io** and **MongoDB**.
- Designed to streamline technical assessment workflows with comprehensive candidate evaluation tools.

SKILLS

Programming Languages	Python, JavaScript, Java, Node.js, C++
Software Engineering	React, Next.js, Spring, Flask, MongoDB, Git, Typescript, Terraform, Git
Systems Engineering	MacOS, Linux, Nginx, Amazon Web Services, Docker, Kafka