Vivek Patel

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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**

Related Courses: Software Engineering, Computer Networks, Operating Systems, Web Technology, Operating Systems

SKILLS

Programming Languages	Python, JavaScript, Java, C++, C
Software Engineering	React, Node.js, Redux, Next.js, Spring, Flask, MongoDB, Tailwind CSS, Git, Typescript, Terraform
Systems Engineering	Windows, MacOS, Linux, System Monitoring, Amazon Web Services, Docker, CI/CD

WORK EXPERIENCE

Software Engineer Intern, *University of Phoenix, Inc.*   **May 2023 - April 2024**

- Working with Next.js and JavaScript to create robust and responsive components for Adobe AEM, while working closely with Americans with Disabilities Act and SEO requirements.
- Optimized site search page, implemented pagination and search category features, resulting in a significant performance improvement of Google Lighthouse score to a perfect **score of 100 from 27**.
- **Spearheaded development of a new microservice** to handle student profile data. Utilized Spring Boot, Java, Elasticsearch, and Docker to storing and querying large amount of data.
- Managed AWS resources such as deployment Pipelines, Elasticsearch, and Kubernetes Instances using *Terraform*.
- Participated in **production support, handled** software monitoring systems and validations.

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

- Refactored theia extensions to **improve efficiency** of cloud-based Integrated Development Environment **by 70%**.
- Built secured terminal collaboration using *Dockerized containers* and *Web Sockets* to **reduce latency under 120ms**, **amplifying client's experience** to better understand candidate's coding habit.
- Led effort to **enhance team's productivity** by building real-time comments on engineering diagram tool using React.js, Typescript, Socket.io, and Ruby on Rails.

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

- Established user onboarding flow and analytics in company dashboard. Worked on a Node package to make customizable video conferencing applications based on customer preference.
- Developed infrastructure using Vercel's wildcard subdomains, Django, and AWS Route 53 to restructure onboarding process **improving load time** to **under 3 seconds**.

Full Stack Engineer, *Webmate Web Services*   **July 2020 - February 2021**

- Founded platform to provide affordable software and web hosting services to small businesses during covid-19 pandemic.
- Led development team and **worked over 30 client**s from different sectors on business websites and digital marketing projects.

PROJECTS

VsCode extension for Browser Compatibility   *GitHub*

- Published an extension to assist developers in **verifying browser compatibilit**y for CSS elements, enhancing coding efficiency.
- Constructed **real-time feedback mechanisms** to display compatibility information directly in Integrated Development Environment 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   *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 3000 stars on GitHub.

Online Interview Platform with Code Compiler   *Github*

- Parallelized with features such as video conferencing, language IntelliSense, code compiler, and virtual whiteboard, developed a platform for interviewers to conduct technical interviews.
- Made use of AWS Lightsail for setting up and hosting *Express.js* as a Virtual Private Server.

Data Visualizer for Ohio city's business and citizen data   *GitHub*

- Highlighted value of data-driven insights to answer key questions about citizen's characteristic predominant business base.
- Streamlined 22GB of data delivery by optimizing PostgreSQL instances and displaying categories using D3.js library.