Jay Vekariya

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Education

Northeastern University Expected May 2025
Master of Science, Software Engineering Systems (GPA 3.92) Boston, MA
Coursework: Object Oriented Design, Program Structure and Algorithms, Network Structure and Cloud Computing, Advanced Big Data Indexing

Dharmsinh Desai University May 2021
Bachelor of Technology, Instrumentation and Control Engineering Nadiad, IN

Skills

Languages	**JavaScript**, **Typescript**, **Go,** Java, Python, C, Bash, SQL
Frameworks	**React**, **NodeJS**, **Redux**, NextJS, Svelte, Spring boot, HTML, CSS, Tailwind, ExpressJS
Databases & Cloud	**GCP**, **AWS**, **Terraform**, Packer, MongoDB, Redis, PostgreSQL
Software and OS	Git, Visual Studio, Service now, Jenkins, MATLAB, Unix/Linux

Work Experience

Infosys Limited | Macy's June 2021 – July 2023
Software Engineer Bangalore, IN

- Collaborated on a **React** frontend application, directly influencing a surge in sales through enhanced user interfaces and interaction processes
- Transformed a **React** website's product information system, reducing deal closure times by **40%** through strategic realignment with sales tactics and integrated customer feedback
- Authored a **Bash** deployment scripts, ensuring consistent **Java** application deployments and elevating operational throughput by **28%**
- Investigated and remedied **Java** application configurations, reducing system downtime by **50%** and significantly boosting application performance
- Spearheaded the setup of specialized **Java** application test environments, which propelled a **60%** improvement in software delivery and quality assurance timelines

Institute of Plasma Research January 2021 – March 2021
Engineering Intern Gandhinagar, IN

- Developed a software-controlled temperature regulation system for Plasma arc operations, resulting in a 15% increase in precision and consistency through advanced algorithm design and PLC programming
- Constructed a real-time temperature control system using sensor data analysis with PLC automation for Plasma arc machinery, enhancing operational efficiency by 40%
- Elevated equipment reliability by 25% through the integration of a cutting-edge sensor-based control system with PLC automation

Projects

DeP Pipeline January 2024 – April 2024

- Constructed a CI/CD pipeline with **GitHub Actions** and **Terraform**, automating deployment of **Node.js** RESTful APIs to **GCP** within secure VPC subnets to enhance infrastructure scalability and release consistency
- Implemented CMEK in the **CI/CD** pipeline to fortify security and ensure data encryption within Cloud
- Designed an event-driven email verification system on **GCP** with pub/sub messaging, integrating load balancing and auto-scaling within VPC subnets to significantly boost service reliability and efficiency

Banners November 2023 - December 2023

- Formulated a comprehensive course registration portal using **React and Redux**, integrated with **Java Spring Boot** and TypeScript for robust type integrity, incorporating **MongoDB** to manage user and course data
- Enhanced web application security by implementing JWT, reinforcing system integrity and safeguarding user data with **MongoDB** as the underlying storage solution

Breadit | Live May 2023 – June 2023

- Built a **Next.js** web application with server-side rendering (SSR), **TypeScript**, and also implemented **OAuth 2.0** for enhanced security
- Synthesized a hybrid data management system utilizing **PostgreSQL** and **Redis** caching, which drastically improved page load speeds and app performance metrics