Jay Vekariya

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Education

Northeastern University <div align="right">Expected May 2025</div>
Master of Science, Software Engineering Systems (GPA 4.0) <div align="right">Boston, MA</div>
Coursework: Object Oriented Design, Program Structure and Algorithms, Network Structure and Cloud Computing, Advanced Big Data Indexing

Dharmsinh Desai University <div align="right">May 2021</div>
Bachelor of Technology, Instrumentation and Control Engineering <div align="right">Nadiad, IND</div>

Skill

Languages: JavaScript, Typescript, Java, Python, C, Rust, Bash, GO
Frameworks: React, NextJS, Svelte, Spring boot, Restful API, Node.js, HTML, CSS, Tailwind, ExpressJS
Databases and Cloud: MongoDB, Redis, PostgreSQL, GCP, Terraform, Packer
Software and OS: Git, Visual Studio, Service now, Jenkins, MATLAB, Unix/Linux
Soft Skills: Organization, Team Collaboration, Problem Solving, Critical Thinking

Experience

Infosys Limited <div align="right">Jun 2021 – Jul 2023</div>
Software Engineer <div align="right">Bangalore, IND</div>

- Architected a custom frontend application using **React**, which lead to a 30% enhancement in sales
- Optimized product information accessibility through a user-centric frontend application, which reduced deal closure time by 40%
- Crafted and maintained automated deployment **Bash Scripts** and configurations for Java middleware components, guaranteeing consistent and efficient deployment operations
- Diagnosed and resolved Java middleware configuration challenges, minimizing downtime by 50%
- Established a **Java** middleware server for testing, reducing software delivery and testing periods by 60%

Institute of Plasma Research <div align="right">Jan 2021 – Mar 2021</div>
Engineering Intern <div align="right">Gandhinagar, IND</div>

- Fabricated a precise temperature control system for a Plasma arc, maintaining optimal temperature levels
- Coupled sensors and actuators via a **Programmable Logic Controller (PLC)** and created intricate logic for immediate temperature regulation
- Performed exhaustive **testing** and calibration to boost the performance and reliability of the Plasma arc

Project

Cloud App <div align="right">Jan 2024 – Apr 2024</div>

- Developed an automated **CI/CD** pipeline using **GitHub Actions**, facilitating consistent deployments to GCP with **Terraform** for scalable infrastructure management
- Implemented a secure user email verification system with custom domain mapping on **GCP**, ensuring reliable backend service connectivity and integrity
- Optimized resource utilization and traffic management via GCP load balancers and **auto-scaling**, bolstering system responsiveness and availability

Course Registration <div align="right">Nov 2023 - Dec 2023</div>

- Developed a feature-rich course registration portal with **React**, using functional components for maintainable UI and **TypeScript** for type-safe code. Backed by **Spring Boot**, ensuring robust backend services with transactional support and JPA for data persistence
- Implemented a real-time scheduling conflict detector and credit limit enforcer in Spring Boot, with **JWT** for secure authentication, ensuring seamless user experiences
- Crafted an algorithm within Spring to intelligently resolve time conflicts, leveraging Spring's advanced features for reliable course scheduling

Breadit | 🌐 <div align="right">May 2023 – Jun 2023</div>

- Utilized **Next.js** with **server-side rendering (SSR)** and **TypeScript** for a responsive, type-safe **web app**, optimizing mobile experience
- Instituted **OAuth 2.0** with Google authentication to elevate security and user experience
- Orchestrated a hybrid data handling solution with a **PostgreSQL** cloud database and **Redis** caching to expedite page loading and performance