

# Jay Vekariya

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## Education

### Northeastern University

Expected 05/2025

Master of Science, Software Engineering Systems (GPA 3.74)

Boston, MA

**Coursework:** Object Oriented Design, Program Structure and Algorithms, Network Structure and Cloud Computing, Advanced Big Data Indexing

### Dharmsinh Desai University

05/2021

Bachelor of Technology, Instrumentation and Control Engineering

Nadiad, IN

## Skills

### Languages

Go, Javascript, Typescript, Java, Python, C, Bash

### Frameworks

React.js, NextJS, Svelte, Springboot, Node.js, HTML, CSS, Tailwind, ExpressJS

### Databases & Cloud

MongoDB, Redis, PostgreSQL, GCP, AWS, Terraform, Packer, Docker

### Software and OS

Kafka, Kubernetes, Git, Visual Studio, Jenkins, Unix/Linux

## Work Experience

### FullStack Software Engineer [Java, Javascript, Jenkins]

06/2021 - 07/2023

Infosys Limited [B2B, Macy's]

Bangalore, IN

- Architected and deployed a user-friendly interface using React.js/Typescript for internal team, resulting in a 40% increase in productivity metrics
- Collaborated with cross-functional teams to gather feedback and iterate on the interface design, resulting in a 95% satisfaction rate among internal users
- Utilized automation tools to streamline and optimize the Jenkins pipeline for a Java/Springboot application, reducing deployment time by 40% and increasing overall efficiency
- Developed and implemented automated shell scripts to update certificates in Java/Springboot systems, reducing manual effort by 80% and ensuring system security compliance
- Researched and optimized Java application configurations, resulting in a 50% decrease in system downtime and a 30% increase in application performance metrics

## Projects

### CVE-GPT [Go, Python, Kubernetes, AWS, Jenkins]

05/2024 – 08/2024

- Engineered and orchestrated a cloud-native, scalable CVE processing system leveraging AWS EKS, Go, Kafka, PostgreSQL, and custom Kubernetes Operators, yielding efficient handling and querying of CVE
- Spearheaded the development of an intelligent LLM application, integrating Hugging Face Transformers, Pinecone Vector Database, and LLaMA3, delivering context-aware responses to CVE queries via a Flask API, thus elevating cybersecurity analysis capabilities

### Dep Pipeline [Terraform, GCP, CI/CD, Typescript, NodeJS]

01/2024 - 04/2024

- Constructed a CI/CD pipeline with GitHub Actions and Terraform, automating deployment to GCP within secure VPC subnets to enhance infrastructure scalability and release consistency
- Configured CMEK in the CI/CD pipeline to fortify security and ensure data encryption within Cloud
- Designed a serverless 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 [Springboot, Java, React.js, Typescript, MongoDB]

11/2023 - 12/ 2023

- Formulated a detailed course registration portal with React.js, underpinned by Spring Boot and TypeScript for assured type integrity, resulting in a sustainable UI
- Implemented JWT for web application security, fortifying system integrity and user data protection

### Breadit [Typescript, Next.js, React, PostgreSQL] | [Live](#)

05/2023 - 06/2023

- Built a Next.js-based web application with SSR and TypeScript, achieving a responsive, type-safe user interface that significantly enhanced the mobile user experience
- Synthesized a hybrid data management system utilizing PostgreSQL and Redis caching, which drastically improved page load speeds and app performance metrics