

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 automated Bash 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 **full-stack** course registration system using **React.js** for the frontend and **Springboot** for the backend, improving the registration process for 4000 of students
- Created **RESTful APIs** with **Spring Boot** to handle course data, student profiles, and registration processes, enabling seamless communication between frontend and backend

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

05/2023 - 06/2023

- Engineered high-performance web applications using **Next.js**, leveraging SSR and **TypeScript** to reduce load times by 50% and increase user engagement by 30%
- Implemented efficient caching using **Redis** to improve performance and reduce database load, resulting in 10x faster page load times and reducing API calls by 80%