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**, Express
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, React.js, 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.js, PostgreSQL] | Live 05/2023 - 06/2023

- Built a **Next.js** 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

GO-Redis [Go] 04/2024 - 05/2024

- Built a Redis implementation from scratch in Golang, handling concurrent requests and basic commands (GET, SET, DEL, KEYS, XADD, XREAD, XRANGE), with support for replication and RDB file loading
- Implemented a Redis Serialization Protocol (RESP) parser, stream handling, and blocking reads

GO-http [Go] 05/2024 - 05/2024

- Developed a robust HTTP framework in Golang, capable of handling GET, POST, file operations, compression, and concurrent requests, significantly enhancing server performance and efficiency