# Jay Vekariya

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## Education

**Northeastern University**                                                                              09/2023 - 12/2025
Master of Science, Software Engineering Systems (GPA 3.82)                                                Boston, MA
**Dharmsinh Desai University**                                                                           09/2017 - 05/2021
Bachelor of Technology, Instrumentation and Control Engineering                                          Nadiad, IN

## Skills

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|---|---|
| **Languages** | Go, Javascript, Typescript, Java, Python, C, Bash |
| **Frameworks** | React.js, Next.js, Svelte, Springboot, Node.js, HTML, CSS, Tailwind, ExpressJS |
| **Databases & Cloud** | MongoDB, Redis, PostgreSQL, GCP, AWS, Terraform, Packer, Docker |
| **Software and OS** | Kafka, Kubernetes, Docker Swarm, Git, Visual Studio, Jenkins, Unix/Linux |

## Work Experience

**Software Engineer (Intern)** [Typescript, Docker, Node.js, Express]                                    01/2025 – 08/2025
Dassault Systèmes                                                                                        Waltham, MA

- Decomposed legacy **Python** monolithic application into 5+ **TypeScript** based **microservices**, enabling independent scaling and reducing deployment time from 20 minutes to 4 minutes
- Architected centralized logging system from ground up using Fluent Bit and **Elasticsearch**, achieving 100% log visibility across all **microservices** and reducing debugging time by 75%
- Optimized **Docker** infrastructure by migrating from Ubuntu to Alpine Linux, achieving 75% reduction in container sizes and significantly improving deployment efficiency
- Developed **NPM package** with automated **CI/CD pipeline**, centralizing common service utilities and reducing code duplication by 70% across **microservices**

**Software Engineer** [Java, Javascript, Jenkins, Springboot, React.js]                                  06/2021 - 07/2023
Infosys Limited [B2B, Macy's]                                                                            Bangalore, IN

- Architected and deployed a user-friendly interface using **React.js/Javascript** for internal team, resulting in a 5% increase in productivity metrics
- Collaborated with cross-functional teams to gather feedback and iterate on the interface design, resulting in a 85% satisfaction rate among internal users
- Utilized automation tools to streamline and optimize the **Jenkins** pipeline for a **Java/Springboot** application, reducing deployment time by 20% and increasing overall efficiency
- Developed automated Bash scripts to update certificates in **Java/Springboot** systems, reducing manual effort by 50% and ensuring system security compliance
- Researched and optimized Java application configurations, resulting in a 15% decrease in system downtime and a 10% 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

**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%