VISHAL VAITLA

Site reliability Engineer | San Jose, CA | vishal.vaitla@gmail.com | 669-238-9316 | linkedin.com/in/vishal-vaitla

EDUCATION

San Jose State University, San Jose - *Master of Science, Computer Science - GPA: 3.7/4.0* **Aug 2022 - May 2024**

Course Work: Distributed Systems, Design Patterns, Software Engineering Practices

Chaitanya Bharathi Institute of Technology- *Bachelor of Engineering, Computer Science - GPA: 3.7/4.0* **Aug 2016 - Sep 2020**

Course Work: Object-Oriented Programming, Server-Side Programming, Database management systems

WORK EXPERIENCE:

Software Engineer 2, NCR Corporation **Apr 2021 - Aug 2022**

- **Monitoring and Alerting**: Monitored pod and container statistics, implementing Prometheus and Grafana to proactively collect analytics and identify issues, reducing incident response time by 30% and achieving a 20% cost savings.
- **High Availability**: Revamped service availability through a Zero Downtime Upgrade project using Docker, Kubernetes, and Cloud volumes, achieving 99.99% uptime, and reducing maintenance downtime by 80%, surpassing SLA targets.
- **Infrastructure Automation**: Utilized Terraform and Ansible to automate infrastructure deployment and teardown, cutting deployment time by 70% and enhancing resource utilization by 30%.
- **CI/CD Pipeline Management**: Created CI/CD pipelines using Jenkins, GitHub Actions and Webhooks to automate the deployment of Spring microservices, reducing deployment times by 50%.
- **Microservices Transformation**: Transformed monolithic servers into 7 cloud-deployable microservices leveraging Java Spring Boot Rest APIs and Apache Kafka, resulting in a 50% reduction in server response time.
- **Incident response**: Enhanced real-time log analysis by integrating Apache Kafka with the ELK (Elastic Search, Logstash, Kibana) stack, resulting in faster problem detection and resolution for dev and support teams.

Software Engineer 1, NCR Corporation **Jan 2020 - Apr 2021**

- **System Debugging and Diagnostics**: Utilized Linux commands to debug issues and diagnose network connectivity, resulting in faster incident resolution and improved service reliability.
- **Performance Optimization**: Refactored the React.js application's codebase, implementing React lazy loading, code splitting, and throttling to optimize web pages and reduce page load times by 30%.
- **Database Migration**: Architected a hybrid database migration solution with Apache Kafka and Amazon S3, utilizing Java microservices to batch process data transfers, reducing migration time from 3 days to 0.5 days, minimizing downtime.
- **Database Script Automation**: Automated SQL database scripts by building tool with Python, reducing engineer hours spent on schema changes by 20%.

Backend Engineer, OwlSpark, Houston, USA **May 2023 - Aug 2023**

- **Code Quality and Observability**: Integrated SonarQube into the CI/CD Jenkins pipeline, leveraging data-driven observability to optimize critical KPIs like code quality, code smell, and overall maintainability.
- **Service Reliability**: Delivered a candidate assessment module with voice and video analysis using React.js, Django, and GPT-4 API, achieving a 4.5/5 candidate satisfaction rating.
- **Database Containerization:** Containerized PostgreSQL using Docker, configured Nginx for routing, improving latency by 60%.
- **Messaging Architecture**: Engineered a lightweight messaging architecture with Django Channels, Web Sockets, Redis with low latency.

Software Engineer, WarrantyMe **Aug 2019 - Dec 2019**

- Designed and implemented reusable **React** components utilizing **React Hooks** and **Context API** to ensure a maintainable codebase.
- Devised secure **frontend authentication solution** for dashboard, integrating **OAuth 2.0** and **JWT** for efficient user access.

PROJECTS

Advanced Neural Network based Classification model **NLP, Python, XML parser, IEEE, BERT, TensorFlow**

- Devised an NLP based classification model for meeting transcripts using BERT pretrained model and TensorFlow to create a customized neural network, achieving a 91% model accuracy.

Simulation of TCP using Sliding Window: **Networking, TCP, Java, Python, Matplolib**

- Implemented TCP protocol simulation with sliding window algorithm for packet loss detection (0.01% probability), implementing periodic retransmission for reliability and congestion control.

TECHNICAL SKILLS

Languages, Scripting and Frameworks	**:** Java, Python, Bash, Go, SQL, Microservices, Agile, REST, GraphQL
Cloud and DevOps Tech	**:** Docker, Kubernetes, AWS, Terraform, Ansible, Jenkins, Prometheus, Grafana, ELK
Monitoring and Observability	**:** Prometheus, Grafana, Splunk, Dynatrace
Tools	**:** Apache Kafka, Rabbit MQ, Redis, Git, Maven, Ngnix
Databases	**:** Oracle, MySQL, MSSQL, Postgres, Cockroach DB, Cassandra