

ARAVINDHAN SURESH

Chennai, India | P: +91 7010040396 | s.aravindhan48@gmail.com | linkedin.com/in/aravindhan-suresh

EXPERIENCE

Hippo video – Chennai, India

July 2022 – Present

Cloud Engineer

- Managed infrastructure provisioning (**S3, ELB, EC2, RDS, Route 53, IAM**) with a focus on security groups (**CIDR, VCP, NAT**) and robust monitoring (**EKK stack, New Relic, Cloudwatch**), enhancing system security (**WAF, Amazon Guard Duty, Cognito**) for optimal operations.
- Successfully transformed the entire product architecture from **x86 to ARM**, executing a comprehensive overhaul of servers, pipeline configurations, and architecture components. This resulted in a **15% improvement** in overall system performance and **25% cost reduction**.
- Strategically revamped the pipeline structures and modules, **reducing deployment times by 40%**, and ensuring a more secure deployment process.
- Led the migration efforts from **Java 7 to Java 11** and **Ruby 2.1 to Ruby 3**, achieving enhanced system compatibility, security, and performance. This encompassed the transition of Docker images, server environments, and pipeline configurations, **resulting in a 30% reduction in application vulnerabilities**.
- Spearheaded **CI system implementation** using **Jenkins** for streamlined automated testing and deployment across Windows and Linux environments.
- Significantly improved **infrastructure management** efficiency by automating changes with **Terraform** scripts, enabling seamless environment updates.
- Implemented **Dockerization** and **orchestrated Kubernetes clusters**, streamlining deployment and scaling.
- Proactively diagnosed and resolved IT incidents, ensuring optimal **site reliability** through the timely mitigation of attacks and overloads using AWS Services.
- Pioneered the implementation of an automated scheduling system that powers down resources during weekends and holidays, **reducing operational costs by 20%**, while seamlessly restoring functionality on weekdays.
- Designed and constructed a **Video On Demand Server** using **Nginx with Adaptive Bitrate feature**, enhancing user experience through optimized video streaming quality.
- Collaborated to minimize disruption with **Amazon RDS Proxy**, ensuring efficient database connections during outages.
- Conducted rigorous **performance testing using Gatling** to identify and address discrepancies between application response time and benchmark test results for APIs.
- Successfully established **OpenVPN servers**, enhancing security protocols for accessing admin consoles, Jenkins, and logs.

Wipro Limited – Chennai, India

Project Engineer, Strategic Market Units - Finastra

March 2021 – July 2022

DevOps Engineer

- Drive **end-to-end development activities** by closely collaborating with technical team members on design, development, code review, issue fixing, and deployment.
- Played a pivotal role in the successful deployment of containerized **Microservice APIs** and **Key Cloak** within a **Kubernetes architecture**, ensuring optimal performance.
- Handled Azure Cloud Services like **Azure VMs, Azure DevOps, Azure MySQL, Azure Kubernetes Service, Azure Container Registry, Azure Key Vaults**.

- Develop and optimize **REST APIs** using **Spring Boot**, applying **Swagger** validation to ensure high-quality API endpoints.
- Lead the implementation of **JUnit** tests across all API layers, resulting in enhanced code quality and reliability.
- Conducted **Acceptance** tests for APIs and UI using **cucumber**, **playwright** and automated test scenarios
- Conducted **Performance** tests for APIs using **Gatling** Scala and for UI using **LoadRunner** Cloud and improved **API performance by 20% to 80%**, and **reduced UI response time by 70%**.
- Monitor and analyze metrics, traces, and logs in VMs and Pods using **Azure monitor workbooks**, **AppDynamics**, and **Grafana Stack (Prometheus, Loki, Tempo)**.

EDUCATION

Jerusalem College of Engineering, Anna University – Chennai, India

July 2016 – April 2020

Bachelor of Engineering, Computer Science; Cumulative GPA: 7.0/10

SKILLS

Infra: Docker, Kubernetes, Ansible, Terraform, Azure Cloud Services, AWS Services,

Programming: Bash, SQL, Java, JavaScript, JQuery, Python; **Back-End:** REST-API Spring boot

Tools: Postman, VS Code, Git, Kubernetes Lens, Docker, Helm, Swagger.

Testing: Cucumber, Playwright, Gatling, LoadRunner Cloud, Test Sigma, Karate;

Database: MySQL, MongoDB, Postgres; **UI/UX:** Figma, Adobe XD; **CI/CD:** Azure DevOps, Jenkins

HONOURS AND AWARDS

Mini Project Competition - Jerusalem College of Engineering

Winner - Automated Blood donor detection - UI PATH ; 1 st / 20 teams, Team Leader

Feb 2019

ADDITIONAL

Languages: Fluent in English, Beginner in Japanese, Native Tamil.

Projects: Prediction and classification of heart disease using ML and Particle Swarm Optimization Algorithm.

Certification: Azure Developer Associate certified (AZ 204)