

# ARAVINDHAN SURESH

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## EXPERIENCE

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### Hippo video – Chennai, India

July 2022 – Present

#### Cloud Engineer

- Responsible for managing infrastructure provisioning (S3, ELB, EC2, RDS, Route 53, IAM, security groups - CIDR, VCP, NAT) , monitoring (EKK stack, New Relic, Cloudwatch), and security (WAF, Amazon Guard Duty, Cognito).
- Remodelled the provisioned Aurora Postgres database into Aurora Postgres Serverless V2, upgraded the Postgres version from 11.3 to 13.7, and worked on the patches for the Ruby servers across all the environments.
- Introduced Amazon RDS Proxy for multiplexing, borrowing and pinning and minimises application disruption from outages in production.
- Designed and implemented a CI (Continuous Integration) system, which included configuring Jenkin server and nodes, writing required Bash scripts, and configuring virtual machines (Windows and Linux).
- Diagnosed, investigated, and resolved all IT incidents; managed product outages and maintained site reliability by resolving the attacks and overloads using AWS Services.
- Created Terraform scripts for every service's respective environments, and any infrastructure changes were automated by it.
- Dockerized typical video servers into Docker containers and orchestrated them in Kubernetes clusters.
- Managed to reduce the overall budget cost by 30% by introducing Postgres serverless, Open Search serverless, Spot instances, Arm processors, savings plan, and scaling up & scaling down of ASGs during off days.
- Setup OpenVPN servers for accessing the admin consoles, Jenkins, and logs.
- Constructed Video On Demand Server using Nginx with the Adaptive Bitrate feature.

### Wipro Limited – Chennai, India

#### Project Engineer, Strategic Market Units - Finastra

March 2021 – July 2022

#### DevOps Engineer

- Managed day-to-day development activities in close concert from early PoC to production with technical team members focused on design development, code review, issue fixing and deployment in the respective environments using CI/CD Pipelines in Azure DevOps
- Operated containerized deployments of Microservice APIs, Key Cloak in Kubernetes architecture.
- Handled Azure Cloud Services like Azure VMs, Azure DevOps, Azure MySQL, Azure Kubernetes Service, Azure Container Registry, Azure Key Vaults.

#### API Developer

- Created REST APIs using Spring boot microservices along with Swagger validation.
- Performed JUnit tests for every layer in the APIs.

#### Performance Engineer

- 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%.
- Monitored metrics, traces, logs in VMs and Pods using Azure monitor workbooks, AppDynamics and Grafana Stack (Prometheus, Loki, Tempo) and used them to drill down the business transactions for solving issues.

## EDUCATION

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**Jerusalem College of Engineering, Anna University – Chennai, India**

*July 2016 – April 2020*

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

**Prince Matriculation Higher Secondary School – Chennai, India**

*May 2013 – April 2016*

Grade 12, HSC – 81%; Grade X, SSLC – 95.6%

## SKILLS

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**Infra:** Docker, Kubernetes, Ansible, Terraform, Azure Cloud Services, AWS Services, CI/CD Pipelines, Jenkins

**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; **Software:** Scrum, Unit Test

## HONOURS AND AWARDS

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**Mini Project Competition - Jerusalem College of Engineering**

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

*Feb 2019*

## ADDITIONAL

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**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)