

Arvind Vignesh K

+91 8122601298 | avignesh98@gmail.com | <https://www.linkedin.com/in/arvind-vignesh-/>

EDUCATION

Rajalakshmi Engineering College

Bachelor of Engineering, Computer Science

Chennai

Aug. 2016 – May 2020

Velammal Vidhyashram

Senior Secondary, Computer Science

Chennai

Aug. 2014 – May 2016

EXPERIENCE

Developer II

Delta Airlines

Oct 2023 – Present

Bengaluru, Karnataka

- Accomplished the modernization of multiple mission-critical microservices by migrating them from Spring Boot/SpringMVC to Quarkus. This was, achieved within an impressive 8-month timeframe, not only empowered these services but also streamlined deployment through the implementation of CI/CD pipelines
- Spearheaded the development of a cache system for our flight offers application using AWS ElastiCache, which resulted in a 15% increase in transactions per second and a 40% reduction in boot up time, enhancing user experience.
- Re-engineered 2 core revenue-generating microservices using Java and Quarkus, streamlining code complexity through best practices and TDD. Contributed to deployment automation and enhanced code stability via JUnit and mutation testing
- Conducted regular code reviews and architected solutions using AWS components, establishing design principles aligned with industry best practices. These guidelines were adopted across multiple teams, improving consistency, code quality, and efficiency in solution delivery
- Launched CI/CD pipelines using Tekton, slashing time to promotion between environments by 30%, accelerating release frequency from monthly to bi-weekly, significantly enhancing operational efficiency.
- Enhanced existing infrastructure by improving Response time by 20% and TPS by 50% leveraging Kubernetes concepts and Java Garbage Collection concepts.

Developer I

Delta Airlines

Oct. 2021 – Oct 2023

Bangalore, Karnataka

- Developed critical features for the high-traffic cart application, leveraging Java, Spring Boot, and Cassandra DB. Successfully deployed the application to ROSA cluster, handling 900 TPS without performance degradation
- Enhanced error observability and standardized error handling for GUC and RUC applications by implementing a comprehensive error mapping system
- Significantly bolstered code quality across multiple services by driving test coverage above 95% using JUnit, Mockito, and mutation testing, enhancing code stability and reducing the likelihood of production issues

Associate Engineer-Technology

Virtusa

Sep 2020 - Oct 2021

Chennai , Tamilnadu

- Was a part of Google's Professional Services Organization and gained a lot of *expertise on GCP*
- Developed and deployed multiple Terraform modules for infrastructure provisioning on Google Cloud Platform (GCP), increasing deployment efficiency by an average of 50% while adhering to best practices in Infrastructure as Code.
- Provisioned and maintained Compute Engine instances using Infrastructure as Code (IaC) with Terraform
- Deployed Cloud Functions to automate the lifecycle of Compute Engine Instances

Intern- Technology

Virtusa

Apr 2020 - Sep 2020

Chennai , Tamilnadu

- Was tasked with leading a group of 4 interns in preparing a logging module using python for an internal project.
- Streamlined project delivery by implementing t-shirt sizing for task allocation and prioritization

TECHNICAL SKILLS

Languages: Java, Python

Tools : Docker, Redis, Cassandra DB, Kubernetes, Openshift, ArgoCD

Frameworks: Quarkus, SpringBoot, Junit, Mockito,

CI tools: Jenkins, Tekton, GitlabCI

Cloud Components: AWS API Gateway, AWS CFT, Lambdas, VPC, Route 53