

Kiruthika Jayabalan

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EDUCATION

THIAGARAJAR COLLEGE

BACHELOR OF ENGINEERING ECE

2017-2021 | Madurai, India

CGPA: 9.8/10

PSC SCHOOL

12TH COMPUTER SCIENCE, 2017

Percentage: 97.83%

10TH CBSE, 2015

CGPA: 9.8/10

PROFILE LINKS

LeetCode:// [keerthi15111999](#)

HackerRank:// [keerthi15111999](#)

GeeksforGeeks:// [kiruthikaj](#)

Github:// [Kiruthika-Jayabalan](#)

LinkedIn:// [kiruthika-j](#)

CERTIFICATIONS

- HackerRank Problem Solving
- CodeChef Data Structures and Algorithms

SKILLS

LANGUAGES

- C++
- Golang

BACKEND

- Kubernetes
- gRPC
- Docker
- Microservices
- AWS EKS cluster
- Helm • Carvel • CI pipeline
- Bazel • Bash scripting

DATABASE

- PostgreSQL
- Timescaledb

TEST

- Ginkgo Bdd framework
- SonarQube
- Unit test
- Module test
- Integration test
- Benchmark test

TOOLS

- Git • Postman • Goland • VScode

EXPERIENCE

> MEMBER OF TECHNICAL STAFF II - R&D, VMWARE (By Broadcom)

Feb 2023 - Dec 2023 | Bengaluru, India

Modern Apps and Management Business Group - Tanzu Service Mesh

- Developed **Space Scheduling reconciler** in **Go** which schedules clusters to a space that matches the space(construct) capabilities.
- Added inline values schema type validation, schema aggregation and exclude keys feature for **Carvel** packages.
- Developed **Cluster Migration reconciler** in **Go** which migrates the workloads from one cluster to another without any downtime.
- Developed alert config microservice for the event framework in **Go**, which collects the user **webhook** config and inputs it to the alert manager, an open-source tool to forward the alerts correspondingly for the event framework.
- Added **CI pipelines** for image build, publish using **docker** and **helm packaging** for the repositories.

> MEMBER OF TECHNICAL STAFF I - R&D, VMWARE

July 2021 - Jan 2023 | Bengaluru, India

Network and Advanced Security Business Group, CTO - Tanzu Service Mesh

- Developed a **apilo controller** microservice in **Go**, which monitors the API behavior-specific metrics like **latency**, **response count** and **uptime** from the Kong gateway and shows violation on complete error budget depletion and writes the time-series data to **timescaledb**.
- Contributed to **cluster onboarding** workflow and **release packaging**. Added **protobuf** support in Mazinger using **bufconn** library.

Cloud Architecture - Office of the CTO - Tanzu Service Mesh

- Developed **Reconcilers** for PRTC controller which handles defects in the subscription events and improved the efficiency of SLOs defined with service groups from the delay of **20s** to **0.5s**.
- Handled **end-to-end fixing of code and testing** for the scale re-architecture of metrics stream from the data plane to control plane PRTC components.
- Contributed to **metrics writer service**, which does filtering of metrics based on the policy in the dataplane.
- Actively involved in fixing bugs, writing **unit**, **benchmark** and **integration** tests.

ACHIEVEMENTS

- Received VMware **Elevate Our Best Award** and **Achieve Our Best Award** based on the performance(2022-23).
- Received VMware **Aspire Our Best Award** for the innovation category in the hackathon (2022).
- Academic topper of **ECE department** in Thiagarajar College(2017-18).
- Academic topper of **Computer Science** branch in Class XII(2017).

POSITION OF RESPONSIBILITY

- Served as **General Secretary** of the ECE department in Thiagarajar College(2021).
- Volunteered as a **mentor** for VMware Campus Ambassador Program(2022).