

KAVIN ARAVIND

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Summary

Software Engineer with 7+ years of experience in full-stack development, cloud-native principles, and distributed systems. Proven ability to architect, build, and implement scalable solutions, with expertise in Kubernetes, Go, and various cloud platforms.

Education

Georgia Tech

Master of Science Computer Science, Specialization in Computing Systems

Aug 2022 – Present

Atlanta, GA

Virginia Tech

Bachelor of Science Computer Science, Minor in Mathematics

Aug 2013 – Dec 2018

Blacksburg, VA

Carnegie Mellon

AP/EA Pre-College Fundamentals of Programming

May 2012 – Aug 2012

Pittsburgh, PA

Experience

Infinity Speak | Philadelphia, PA

Aug 2022 – Present

Founder & Technical Lead

- Architected and developed a SaaS Web Application in the telecommunications sector. Full stack development utilizing cloud native principles deployed on GCP (GKE, Cloud Storage, Cloud SQL).
- Technologies:** Kubernetes, RabbitMQ, React, Next.js, Go, Typescript

Shipa | Mountain View, CA

Apr 2022 – Aug 2022

Software Engineer

- Built Kubernetes Controllers & Custom Resource Definitions designed to make application deployments easier for teams and permit managers to enforce deployment policies.
- Technologies:** Kubernetes, Kubebuilder, Go

IBM | San Jose, CA

Jan 2017 – Apr 2022

Staff Software Engineer

Dec 2020 – Apr 2022

- Architected, built, and implemented security and automation infrastructure for the many SaaS offerings under the Watson Umbrella coupled with an interface to drive exec-level decisions.
- Technologies:** Kubernetes, OpenShift, Helm, React, Go, TypeScript

Associate Software Engineer

Aug 2018 – Dec 2020

- Developed scalable distributed data processing infrastructure, optimized software configurations for fortune 500 companies, and ensured SLA's were met for IBM Cloud Pak for Data.
- Technologies:** Kubernetes, OpenShift, Helm, React, Go, Python, Node.js, Java

Software Engineering Co-Op

Jan 2017 – Dec 2017

- Designed a multi-threaded application to generate client focused data for Hadoop / DB2 / Oracle.
- Technologies:** Angular 4, Node.js, Java, TypeScript

Technical Skills

- Languages:** Go, TypeScript, Java, Python, SQL
- Technologies:** Kubernetes, OpenShift, Kafka, Redis, Hadoop, Postgres, Docker, RabbitMQ, Google Cloud Platform

Projects

Distributed Message Queue

Go, Raft Consensus Algorithm

- Implemented a distributed message queue using the Raft Consensus Algorithm in Go.

Flight Logistics

Full Stack | Mobile App (Next.js, React Native, Typescript)

- Log flights, track duty hours, manage maintenance records, and generate FAA-ready reports.

Publications & Certificates

SQL Processing Engine for Blockchain Ledger

USPTO Patent US11093495B2

- Co-authored a patent for a method enabling SQL queries on blockchain data by utilizing caching for efficient retrieval and merging of ledger blocks.

The Linux Foundation

CKA | CKAD | CKS

- Certified Kubernetes Administrator, Application Developer, Security Specialist

Leadership

Eagle Scout

Boy Scouts of America