

Achuth Karakkat

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EXPERIENCE

Unifize, Bangalore

Software Developer

April 2023 - Present

- Designed and implemented the transformation of two legacy monolithic applications into microservices, using the worker design pattern with **Clojure, Redis and Kafka**. Collaborated with cross-functional teams to define architecture, develop APIs, and ensure seamless integration of these microservices with existing systems.
- Architected and developed an internal server side web application to help developers debug customer issues faster while ensuring customer privacy. The application provides developers with access to limited customer data on an approval basis.
- Improved the efficiency of an application with lengthy runtime by implementing parallel processing for time-consuming tasks and **reduced overall runtime by $\approx 50\%$** .
- Rearchitected existing API routes with the OpenAPI specification and introduced Swagger UI for enhanced accessibility.

SAP Labs India, Bangalore

Associate Developer

July 2021 - March 2023

- Developed and maintained the server-side code responsible for connecting SAP's flagship SaaS analytics tool - SAC with their in-house Data Warehouse tool - SAP BW.
- Monitored JUnit tests, identified and fixed bugs/regressions.
- Solved **100+ customer tickets in 13 months** while ensuring zero SLA violations.

Software Development Intern

Jan 2021 - June 2021

- Worked with other interns to model a user journey of how a customer with raw data can process and leverage the use of SAP BW to gain business insights.

AGS Transact Technologies Ltd, Mumbai

Software Development Intern

June 2020 - August 2020

- Part of the team responsible for creating an end-to-end contactless ordering and dining solution for restaurants.
- Led the development of the restaurant partner Android application responsible for handling day-to-day activities.
- Built **REST APIs** to serve information to the front end, handle incoming orders and create ad-hoc menu items.
- Deployed the entire application to **AWS leveraging its RDS and S3** services for storing crucial information.

PROJECTS

Emergency ventilator

August 2020 - November 2020

- Developed a portable and affordable ventilator that could be controlled with an Android phone and also track and visualize the vitals of a patient with the sensors attached to the microcontroller.
- Deployed the entire system to the **cloud using the AWS IoT Core** service so that the bulk of the computation is offloaded from the microcontroller and can also be remotely monitored.

EDUCATION

Amrita Vishwa Vidyapeetham University,
Coimbatore | 2017 - 2021

Bachelor of Technology in Computer Science and Engineering

Graduated with Distinction, 8.92 CGPA

Toc-h Public School, Kochi | 2015 - 2017

HSE, Central Board of Secondary Education (Science)

Grade: 94.2%

SKILLS

Clojure

Java

JavaScript

Redis

Kafka

REST APIs

PostgreSQL

Git

AWS

CERTIFICATIONS

Udemy

Fundamentals of Backend Engineering

Stanford University

Machine Learning

University at Buffalo & The State University
of New York

Blockchain

Johns Hopkins University

HTML, CSS, and JavaScript for Web Developers

Cambridge Assessment English

BEC Vantage

ACCOMPLISHMENTS

- Finalist (Top 20 out of 4000) at UST Global d3code All India Hackathon conducted at Trivandrum in December 2019
- Placed 5th in AGS Transact All India Hackathon conducted at Mumbai in July 2019
- National level basketball player

PUBLICATIONS

- Article in the International Journal of Medical Engineering and Informatics - 2022 Vol.14 No.6