

SANJIVY KUMARAVEL

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EDUCATION

Bachelor of Technology (Hons) in Information Technology

2018 - 2022

Pondicherry Engineering College, Puducherry

CGPA : 8.40/10

EXPERIENCE

Software Engineer at Striim, Chennai

July 2022 - Present

Striim is a distributed data integration and intelligence platform that also offers a cloud-based fully managed SaaS platform on all three CSPs (GCP, Azure, AWS). I work as part of Striim's SaaS team, in my role,

- I contributed to a feature project that involved integrating Azure and AWS private link with the Striim SaaS platform with my teammates.
- I have individually contributed to multiple feature projects, including the recent project which is adding SCIM and SAML integration of Azure with our SaaS application. I've built endpoints that are required for the auto-provisioning of user management with SCIM standards and successfully published the SCIM supported our SaaS application on Microsoft Entra gallery.
- I enhanced our internal release deployment tool for onboarding Striim platform solutions to our SaaS application. I have also contributed to few of the frontend projects which are based out of Next.js
- I have established an automation pipeline setup for the QA team to easily run their testsuites on Spinnaker within the same internal tool.
- I built an internal microservice around the Kubernetes API as a wrapper with custom parameters to address our internal use case. I've enhanced the existing CI pipelines with vulnerability scans and added code coverage reports on the pull requests.
- I have also worked on cleaning up unused resources by writing fault-tolerance workflows in Uber Cadence and deploying them across all CSPs, ultimately helping us reduce CSPs costs.
- Apart from feature projects, I have ad-hocly worked on enhancing existing APIs, refactoring code, delivering presentation demos on completed projects for other team members, and writing documentation.

Software Engineer Intern at Striim, Chennai

January 2022 - July 2022

I was a member of the SaaS team during my internship. Throughout this period, I familiarized myself with our internal microservice-based architecture developed in GoLang using Gin. Initially, I was assigned QA tasks, where I implemented automation for Cypress using JavaScript, I performed manual UI testing and developed a solution for uploading test results as reports to Jira's X-Ray using Python and Jira's REST APIs. After completing my internship, I transitioned to the SaaS development team from the QA team.

MLOps Intern at Yuvabe, Puducherry

June 2021 - September 2021

I helped the team in writing FastAPI wrappers for their existing ML model scripts and deployed them in Google Cloud Run, also made a front-end in ReactJs for displaying the inferences.

Software Developer Intern at Ilahi Technologies, Puducherry

December 2020 - April 2021

I was responsible for developing Android and web apps using Flutter for client projects. During my tenure, I worked on three Android apps and a web app for admin panel. Through my work, I gained valuable experience in app development and honed my skills in Flutter and Firebase. My contributions helped Ilahi Technologies to deliver high-quality solutions to their clients.

SKILLS

- **Python, Go, Java, Dart, Gin, FastAPI, Flutter, Flask, Typescript, *Next.js*, \LaTeX**
- **Git/Github, REST API & Low-level system design, Database design**

- **Firebase** (Firestore & Functions), **MySQL**, MongoDB Atlas, Redis, **GCP**, **Azure** (Entra ID, Functions), **AWS** (EKS, Lambda, PrivateLink)
- **Docker**, **Kubernetes**, Compute Engine, **Cloud Run**, Shell scripting, Spinnaker, Terraform

PERSONAL PROJECTS

PyCare API

I spearheaded the development of the Pudhuvai Care app and its corresponding REST API for the Puducherry Health Government. Leveraging Flutter for the app's user interface and Python's FastAPI framework for the backend, the deployed application on Heroku now offers an efficient solution for monitoring hospital details in Pondicherry.

Technologies used: Python (FastAPI), Heroku, MongoDB, Flutter, Web Scraping Techniques

Micro

I developed a platform that allows users to run Python scripts or Java programs over the web via websockets interactively. I used subprocess to run the incoming Python/Java code on the container and respond each data as it appears on the terminal. I built APIs following the REST architecture design and stored the user data on MongoDB and code snippets on Cloud Storage

Technologies used: Python (FastAPI), Cloud Run, Next.js (TypeScript)

Driver Drowsiness Detection System

For my final-year project, I contributed to the development of an Android application and curated datasets for the model. By extracting images from driver videos, we successfully constructed a robust system to detect driver drowsiness. Our implementation employed the Flutter framework for the application's user interface and utilized Python for the backend logic. Our project has successfully created a tool to help prevent accidents caused by driver fatigue.

Technologies used: Python (FastAPI)

Canteen Management System

I developed a web-based administration application for Brewery company administrators and an Android app for canteen operations. Created as a freelance project for a government-assisted Brewery company in Lao, the Android app is utilized on POS machines for functions such as order placement, inventory management, revenue tracking, and employee/user management. The web admin application empowers administrators to oversee multiple canteens, manage user access, generate reports, and access revenue dashboards. This project, from architectural design to building the Firebase Firestore backend and deploying the application on Hostinger's VPC, was a complex real-time use case that spanned approximately 6 months.

Technologies used: Flutter, Python (FastAPI), MySQL, Hostinger

Android Applications

I have created several Android applications, some of which have garnered over 500+ downloads on the Google Play Store. Published a few of the applications on Apple's App Store, Xiaomi's GetApps and contributed to FOSS on F-droid.

ACCOMPLISHMENTS

Website design

Awarded 1st prize in online 24hrs web designing challenge conducted by Kalasalingam Academy of Research and Education.

LINKS

Github, Hackerrank, Instagram, LinkedIn, Play Store, Portfolio

LANGUAGES

English, Tamil

PERSONAL SKILLS

Problem solver, Interactive person, Leader, Instructor, Team player, Creative thinker, Self-motivated