

Abin Simon

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Software Engineering professional with over 6 years of experience designing and developing scalable platforms. I have worked on systems design for high throughput systems, and have knowledge of the technology stack of popular SAS solutions. Over the years, I've had the opportunity to work on multiple different technologies. I also work on and maintain multiple open source projects around improving developer experience and write about my research on developer tooling in my blog.

EXPERIENCE

InfraCloud Technologies

Software Engineer

Nov 2021 – present

Pune, India

Primary Technologies/Stack: Golang, Kubernetes, JavaScript

- Worked on building a solution that provides Zero trust access control to Kubernetes clusters
- Open Source a client project around Kubernetes access management and helped in building a community around it
- Helped build web dashboard for easier Kubernetes access management and shell access for customers in Golang
- Improved developer experience by reworking and simplifying multiple build/release pipelines
- Working on building data backup solutions for existing SAS platforms in Golang

Saama Technologies

Research Engineer

July 2018 – Nov 2021

Chennai, India

Primary Technologies/Stack: Python, Airflow, Pandas, Postgres, Kubernetes

- Built a chat framework for our internal NLU engine deployed onto multiple client environments which helped simplify the querying for analytical data
- Operationalize multiple in house ML/DL models and simplified the overall architecture improving both responsiveness and cost efficiency.
- Built scalable solutions for training and inference pipelines for in-house AutoML solution on Kubernetes
- Worked on creating a cloud IDE platform which provides an always available online IDE with all the user data synced speeding up development for data scientists
- Built scalable data transformation pipeline for large volumes of data fast tracking data processing of medical records.

PYCON 2019

Dev Sprint

November 2019

Chennai, India

- Hosted Dev Sprint for IndicNLP (NLP for Indic languages)
- Helped teach attendees about Python, OSS and NLP

Saama Technologies

Engineering Intern

Jan 2018 – June 2018

Chennai, India

Primary Technologies/Stack: Python, JavaScript, React, Tensorflow

- Create a chat interface for in-house chatbot engine DaLIA using JavaScript and React which provided both stand-alone and embeddable UIs

- Built Flow Builder - Drag&Drop UI to easily create a complete chatbot without any coding experience
- Worked on building a prototype for an experimental blockchain based patient consent platform

Datalog.ai

Engineer Intern

July 2016 – Oct 2017
San Francisco, CA (Remote)

Primary Technologies/Stack: Python, JavaScript, React

- Built embeddable and standalone UI for chatbot MyPolly
- Built framework for connecting to multiple chat platforms like Slack, Facebook Messenger, Alexa etc.

EDUCATION

CUSAT

Cochin, Kerala, India
BTech in Computer Science
2014 - 2018

Vijayagiri Public School

Thrissur, Kerala, India
Higher Secondary (XI - XII)
2012 - 2014

PROJECTS

Paralus Zero trust access management for Kubernetes

Paralus is a free, open source tool that enables controlled, audited access to Kubernetes infrastructure. It comes with just-in-time service account creation and user-level credential management that integrates with your RBAC and SSO.

Corso Free, Secure, and Open-Source Backup for Microsoft 365

Corso is an open-source tool which protects Microsoft 365 data by securely and efficiently backing up all business-critical data to object storage.

PACE Complete IDE in the cloud

IDE in the cloud with automatic version control and full user traceability working as the backbone for a data transformation pipeline managing dynamic user codebases.

AutoML Automatic ML models on tabular data

Generate structured data pre-processing pipeline and an ML model for classification or regression.

SKILLS

Languages

Golang, Python, Javascript, Rust, Bash

Tools

Docker, Kubernetes, Airflow

Databases

Postgres, MongoDB, SQLite, Redis

Platforms

Google Cloud, AWS

Training and deployment of models were managed and scaled through Kubernetes.

DaLIA A Virtual Assistant for Pharma

Closed domain Virtual Assistant Framework using NLP. Worked as a Full Stack developer on the project managing framework and the UI components.

SAM Smart Auto Mapper

Data transformation pipeline processing volumes of data using user configurable pipeline for medical standards built using Pandas, Postgres and scaled using Airflow and Kubernetes.

Flow Builder Low-code bot builder UI

A Drag&Drop UI for building and deploying chatbots using DaLIA framework.

MyPolly Chatbot framework

A open domain programmable chatbot framework which could be programmed by users and resulting chatbots could be embedded on client webpages.

Besides this, I also work on and contribute to multiple open source projects mostly centered around developer tooling which you can see on my GitHub profile.