

Abin Simon

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I am a **seasoned Software Engineer** with extensive experience in designing and developing **scalable, high-throughput systems**. My expertise spans **systems design, cloud-native technologies, and developer tooling**. I have a proven track record of delivering robust solutions across diverse domains, including Kubernetes, machine learning, and data transformation pipelines. **Active open-source contributor** specializing in developer tooling.

SYSTEMS & INFRASTRUCTURE

Kubernetes • Docker
Microservices • Cloud
Architecture
Event-Driven Systems

DATA & DEVOPS

ETL Pipelines • CI/CD
Observability • Automation
Infrastructure as Code

TECHNICAL SKILLS

Go • Rust • Python • Javascript
Nix • Tree-sitter
AI/LLM

EXPERIENCE

InfraCloud Technologies

Senior Software Engineer

Nov 2022 – Present

Pune, India

Primary Technologies: Golang, Kubernetes, Azure

- Built and maintained a distributed backup engine for Microsoft 365 using Golang, processing TBs of data with encrypted, incremental backups to S3-compatible storage.
- Developed a microservice, which ingests and processes events from multiple sources, and delivers analytics by integrating with Azure ADX and EventHub
- Improved CI/CD pipelines and build systems, reducing deployment times by 60% across multiple development teams.
- Developed a centralized control plane in Golang for managing authentication and authorization for a distributed backup system

InfraCloud Technologies

Software Engineer

Nov 2021 – Nov 2022

Pune, India

Primary Technologies: Golang, Kubernetes, JavaScript

- Built a Zero Trust access control system for Kubernetes clusters using Golang, implementing secure proxy patterns and RBAC integration for enterprise security compliance.
- Contributed to open-source Kubernetes access management tools, developing core features and maintaining compatibility across cluster versions.
- Developed a React-based web dashboard with Golang backend APIs for Kubernetes access management, enabling secure shell access and audit logging.

Saama Technologies

Research Engineer

July 2018 – Nov 2021

Chennai, India

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

- Built a distributed NLU framework in Python for querying medical analytics data, implementing microservices architecture with REST APIs and caching layers.
- Deployed ML/DL model serving pipelines on Kubernetes, implementing auto-scaling and load balancing to handle huge number of inference requests per minute.
- Developed scalable training and inference pipelines for AutoML platform using Kubernetes operators, reducing model deployment time from hours to minutes.
- Built a cloud IDE platform with containerized development environments, enabling real-time collaboration and version control integration for data science teams.
- Implemented high-performance ETL pipelines for processing 500GB+ medical records daily using Apache Airflow and Pandas, optimizing data transformation workflows by 40%.

Saama Technologies

Jan 2018 – June 2018

Engineering Intern

Chennai, India

Primary Technologies: Python, JavaScript, React, Tensorflow

- Developed a chat interface for DaLIA, an in-house chatbot engine, using React for both standalone and embeddable UIs.
- Created Flow Builder, a low-code drag-and-drop interface for building closed-domain chatbots.
- Designed a prototype for a blockchain-based patient consent platform, exploring innovative solutions for data privacy.

Datalog.ai

July 2016 – Oct 2017

Engineer Intern

San Francisco, CA (Remote)

Primary Technologies: Python, JavaScript, React

- Built an embeddable and standalone UI for the chatbot MyPolly, enhancing user engagement.
- Developed a flexible framework to integrate the chatbot with platforms like Slack, Facebook Messenger, and Alexa.

EDUCATION

CUSAT

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

Vijayagiri Public School

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

SKILLS

Languages

Golang, Python, Rust, JavaScript, Bash

Tools

Docker, Kubernetes, Terraform, Airflow, Git

Databases

CosmosDB, Postgres, MongoDB, SQLite, Redis

Platforms

Azure, AWS, Google Cloud, Oracle Cloud

WORK PROJECTS

EARN

High-Performance Event Processing Microservice

Microservice for ingesting, processing, and enriching millions of workload protection and event telemetry records. Leveraged Azure EventHub for event streaming, CosmosDB for storage, and Azure Data Explorer for real-time analytics. Built REST APIs for operational insights with reliable data pipelines and fast response times.

Veeam Data Cloud Auth

User Management Backend for VDC Control Plane

User-management backend for Veeam Data Cloud Control Plane. Built authentication flows using Auth0 and JWT-based token verification for secure API access. Designed role-based access control using Cedar for granular authorization across multi-tenant environments based on dynamic declarative RBAC specifications.

Paralus

Zero Trust Access Management for Kubernetes

Paralus provides secure, audited access to Kubernetes clusters with just-in-time service account creation and user-level credential management. Built with Golang microservices architecture, implementing RBAC integration, mTLS communication, and audit logging for enterprise compliance.

PACE

Cloud-Based IDE

Developed a containerized cloud IDE with automatic version control and user traceability. Built with microservices architecture using Docker and Kubernetes, featuring real-time collaboration, persistent workspaces, and automated backup systems.

SAM

Smart Auto Mapper

Developed a data transformation pipeline for medical standards data using distributed processing with Pandas and PostgreSQL. Orchestrated with Apache Airflow on Kubernetes, implementing parallel processing and error recovery mechanisms.

Corso

Open-Source Backup for Microsoft 365

Corso offers secure, incremental backups of Microsoft 365 data to object storage, featuring built-in encryption, deduplication, and compression. Implemented in Golang with distributed architecture supporting concurrent backup streams and storage optimization for large-scale deployments.

AutoML

Automated ML for Tabular Data

Built an automated tool for generating data preprocessing pipelines and ML models for classification/regression tasks. Implemented distributed training on Kubernetes with custom operators, featuring dynamic resource allocation and cost optimization.

DaLIA

Virtual Assistant for Pharma

Created a closed-domain Virtual Assistant Framework using NLP, managing both the backend framework and frontend UI. Ensured seamless integration and user-friendly design for pharmaceutical applications.

PERSONAL PROJECTS

Here are some of my favorite, not necessarily most popular personal projects. These include tools I use daily, open-source contributions, and experimental projects that showcase my interests in AI, automation, and developer tooling.

AI & Automation Tools

meain/esa

Tool for rapidly creating personalized AI agents

meain/yap

Assistant for efficient LLM prompting and interaction

meain/yaq

Browser extension for web querying using language models

meain/ojut

Voice dictation tool using Whisper speech recognition

meain/refer

Semantic search across local files using embeddings

System Utilities & CLI Tools

meain/dotfiles

Comprehensive development environment automation

meain/tint

Tree-sitter powered linter for code analysis

meain/chainlink

Tool for managing GitHub pull request chains

Editor & Development Tools

meain/evil-textobj-tree-sitter

Tree-sitter powered text objects for Emacs evil mode

meain/scopeline.el

Contextual code block information for Emacs

meain/vim-package-info

Vim plugin for viewing package dependencies

Open Source Contributions

lsd-rs/lsd

Next-generation ls command with colors, icons, and tree view

NixOS/nixpkgs

Contributions to Nix package collection and NixOS ecosystem

karthink/gptel

Simple LLM client for Emacs integration

osa1/tiny

Console IRC client with modern features