Damodharan Thulasiram

ABOUT ME

I build for all things web.

Intrigued by design, armchair philosophy and anything CS. I am driven by a strong sense of need to improve the quality of life through the products I design and create.

I come with a hybrid background in both backend systems and frontend technologies. I am also a Programming languages enthusiast and dabble with Rust, Lisps and other FP languages in leisure in many miniature side projects.

WORK EXPERIENCE

Simpl
Bengaluru, India
Sep 2020 - Jul 2023

Senior Staff & Staff Engineer

Key Focus: Mentoring, OKRs and KPIs of Identity and OMS Systems

- Development: Unified Identity and OMS services
- Observability: KPI monitoring with tools such as NewRelic, Jaeger, Performance Insights and SonarQube
- Initiatives: Sentry as default error monitoring, Stripe styled ids, Revenue drop for top merchants
- Community: Organized public Golang meetup (June 2022)

Senior Software Engineer

Key Focus: Stability of Core Ledger and Approval Systems

- Best Practices: Driven in golang especially in validations, errors and logging
- Observability: Using Prometheus, Cloudwatch and Grafana
- Docs Platform: Built using Docusaurus and OAPI3 spec compatible tooling
- Tooling: Inhouse fixed window rate limiter
- Community: Headed the Internal Python meetups

CONTACT INFO

Bengaluru, India

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https://ahiravan.dev

EDUCATION

B.E Mech (2010-2014)
Hindustan University, Chennai.

OSS CONTRIBTUIONS

Kombu RabbitMQ

A robust RabbitMQ consumer using Kombu

Diff and Patch

A simple python package which serves as a framework for diffing and patching complex objects.

Feature Toggle

A python package which can be hooked onto Django as an app. The app is based on behavioural design pattern "Feature toggle" by Martin Fowler.

Treebo
Bengaluru, India
May 2016 - Aug 2020

Principal Software Engineer

Key Focus: Performance of Revenue Systems.

- Pricing System: Re-architected as a partially event-driven system
- Scaled the Couponing System which uses Drools engine for rule evaluation
- Infrastructure: Standardized Jenkins pipelines, Dockerized projects, and cost-cutting initiatives

Senior Software Engineer

Key Focus: Stability of B2B products.

- Invoicing Solution: Developed in-house partially inspired from DDD principles.
- Process Workflow: More user-friendly process workflow using Celery canvas
- Built "gevent" based auto scalable custom worker for RabbitMQ

Contractor (May 2016 - Feb 2018)

I was a contractor from Innoventes Technologies Ltd and worked in my capacity as a Software Engineer

Infosys
Chennai, India
Jun 2014 - Apr 2016

Systems Engineer

I was actively involved in the transition of a more robust version of Inventory Tracking and Reporting system. I have also contributed minor roles in Credit Collection, Location, and General Ledger management systems for Finance Planning and Accounting Division, FritoLay - NorthAmerica.

SKILLS

#languages

Python • Go • Sql • Ruby • Javascript • Java • Clojure • A bit of Rust •

A pinch of Various Lisps and General FP languages

#frameworks

Django • Flask • Celery • SqlAlchemy • Sqlc • Gin • FastAPI • Axum

#infra

AWS • Jenkins • CircleCI • GIT • RabbitMQ • Kafka • Docker • Prometheus • Grafana • Sonarqube • Sentry • HAProxy • Nginx • Caddy • Jaeger • NewRelic