

# Damodharan Thulasiram - Staff Engineer

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## SUMMARY

I am a Staff Engineer with over 9+ years of experience in both frontend and backend(primary) technologies. I have worked on several 0 - 1 projects and have gained valuable knowledge in all facets of engineering. Consistently delivered projects on time and within budget while maintaining quality standards. I am always looking for new challenges, and thrive in an environment where I can learn and grow

## EXPERIENCE

[Simpl Inc](#) | Senior Staff Engineer

Apr 2022 - Jul 2023

- Key Focus: Mentoring, OKRs and KPIs of Identity and OMS Systems
- Led a team of 6 engineers in architecting and developing an e-commerce platform processing ~1Cr in daily sales
- Created and maintained technical documentation (tech specs, design documents, sequence diagrams) for above services
- Continuously monitor and improve bottlenecks with NewRelic, AWS Performance Insights and other profiling techniques
- Ensure SLAs by adhering and monitoring MTAs(<2min) and MTTRs(<2hrs) with PagerDuty
- Implemented unit tests and automated functional tests covering ~80% of the code base and monitored using SonarQube
- Drove several cross team initiatives like: Sentry as default error monitoring platform and Stripe styled ids for Database performance optimization
- Mentor senior engineers across the org, manage tech debt and drive best practices across frontend and backend stacks
- Helped organize public Golang meetup (June 2022) as a platform to attract talent

[Simpl Inc](#) | Senior Software Engineer

Sep 2020 - Apr 2022

- Key Focus: Stability of Core Ledger and Approval Systems
- Helped develop an unified eligibility profile to curb the tail latencies > 100ms from 99.9 to 99.99 percentile
- Driven best practices in golang especially in validations, errors and logging
- Improve observability metrics (both tech and biz) using Prometheus, Cloudwatch and Grafana
- Built the current documentation portal with Docusaurus(React, Tailwind) and OAPI3 spec compatible tooling with Python
- Developed and implemented an in-house fixed window rate limiter and Web Application Firewall (WAF) to ensure fair usage of eligibility calls
- Headed the Internal Python Community and gave various talks

[Treebo \(Ruptub Solutions Pvt Ltd\)](#) | Principal Software Engineer May 2016 - Aug 2020

- Key Focus: Performance of Revenue and Settlement Systems
- Managed and optimized a complex Pricing and Taxation System using a multi-dimensional rule engine implementation.
- Scaled the Couponing System which uses Drools engine for rule evaluation and back tracking (Java, Spring Boot, Hibernate)
- Developed the Settlement system responsible for applying and adjusting settlements retroactively

- Infrastructure: Standardized Jenkins pipelines, Dockerized projects, and other cost-cutting initiatives in AWS
- Developed in-house Invoicing Solution inspired from DDD principles.
- Built “gevent” based auto scalable custom worker in Python which reacts to backpressure for RabbitMQ
- I was a contractor from Innoventes Technologies and worked in my capacity as a Software Engineer from May 2016 - Feb 2018

**Infosys Technologies Ltd** | Systems Engineer

Jun 2014 - May 2016

- 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.
- Mainframes, COBOL, JCL and DB2

## EDUCATION

**Hindustan University**

Jun 2010 - May 2014

Bachelor - Mechanical

## PUBLICATIONS

**Numerical Analysis of Wells Turbine**

Jul 1, 2014

<https://www.scientific.net/AMM.592-594.1125>

## PROJECTS

**Simple Android Debloater** | Developer, Designer

Aug 2023 - Aug 2023

[https://github.com/thulasi-ram/simple\\_android\\_debloater](https://github.com/thulasi-ram/simple_android_debloater)

Simple Android Debloater is a free and open source cross platform desktop app to disable unwanted system apps that carriers / OEMs can force install in our mobile phones. Built with Tauri(Rust) and SvelteKit(TypeScript).

**Kombu Rabbitmq** | Developer

Aug 2021 - Aug 2021

<https://github.com/thulasi-ram/kombu-rabbitmq>

Lightweight user friendly amqp consumer and producer alternative to Celery pluggable into both Django and Flask Frameworks

**Django Feature Toggle** | Developer

Sep 2017 - Sep 2017

<https://github.com/thulasi-ram/django-feature-toggle>

Feature Toggle implementation as a pluggable django app. Supports SimpleToggle, TimeBombToggle and other ways to manage release of new features that can be easily toggled on / off

## SKILLS

**Languages:** Python, Go, Java, SQL, Ruby, Rust, Clojure

**Frameworks:** Django, Flask, FastAPI, Celery, SQLAlchemy, Gin, Tokio, Axum

**Infra:** AWS, GIT, Postgres, MongoDB, Jenkins, CircleCI, Elastic Search, ELK, Docker, Prometheus, Grafana, Kafka, RabbitMQ, Sentry, HAProxy, Nginx, Caddy, Jaeger, NewRelic