Damodharan Thulasiram

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Professional Summary

A self-taught passionate web developer fluent in Python/Django, SQL, proficient in UML and with a keen eye for design and aesthetics.
- 3+ years of hands-on experience.
- Can fiddle with HTML/CSS/JavaScript
- Versed in both agile and waterfall development techniques.
- Exceptional experience working in fast-paced, deadline-oriented environments.
- Has exposure on messaging and file-based systems.

• **Python** • Django • **Rabbitmq** • Celery • **SQL** • Docker • **git** • JavaScript • **AWS** • (*****)nix & Windows • **UML** • Jenkins •

Experience

Python Developer

Innoventes Technologies Ltd., Bangalore, India, May 2016 - present
One of the core developers in building python based web apps. Modelling, Architecting and developing enterprise grade applications which were integrated with numerous services and messaging systems.

Systems Engineer

Infosys Ltd. , Chennai, India , June 2014 - April 2016
Analyst/Developer in the core team managing Corporate Finance, Procurement Demand Forecast and Accounting portfolio of Frito-Lay Inc., North America.

Projects

B2B (Bigmint, Primus and Athena), Treebo

November 2017 - present
Overseeing the stability and scalability aspect on B2B front. Things include:
- Built Bigmint 2.0 inspired by domain driven design
- Implementation of in-memory cache in Bigmint
- Introduced easier process workflow using celery canvas in Bigmint
- Enhanced custom worker implementation that ensures unique id per message, delayed retry mechanisms and dead-letter queues in Primus
- Improved unit testing coverage in Primus and Bigmint
- *Built "gevent" based auto scalable custom worker on Primus*
- Used cprofile and NewRelic to identify bottlenecks in Athena
- Implemented Grok logger to identify patterns to increase ease of monitoring on the ELK stack.

Bigmint, Treebo

June 2017 - October 2017
An in-house invoicing-receivables solution to improve the billing and post stay experience of Corporate clients. This included different stages an invoice will go through, their ageing, credit notes, summaries, disputes and resolutions. We have also made the transition from Rabbitmq to Amazon SQS, extensively reworked and optimized Django admin to provide a familiar interface with minimal effort in the frontend.

🕐 *30+ days to instant invoicing TAT*   •   ↘ *40 % decrease in disputes*

Primus, Treebo ⧉

January 2017 - May 2017
A self-serve suite specifically built for Corporates, also a lightning fast and user-friendly version of Athena. Given this was a partial rewrite of Athena's code base I had the opportunity to experience first-hand of an enterprise-grade application.

We focused on extensibility and maintainability of the codebase. We had the chance to experiment design patterns such as Strategies, Registries, Proxies, Diffing and Patching mechs, Audit log etc. We have also depreciated the use of celery workers in favor of in-house implementation of asynchronous workers and Dockerized deployments.

📍 *4,000+ room nights / month* • 🏢 *7000+ corporate accounts*

Athena, Treebo

October 2016 - December 2016

Solely architected and developed the core CRM system for Corporate clients from scratch. I have also had the opportunity to fully design the onboarding flows and booking flows for the clients with custom pricing solutions. An internal booking client was built upon this to maximize the efficiency of a team dedicated to suit corporate needs.

📍 *18,000+ room nights / month* • 📊 *22 % of Treebo revenue*

Friends of Treebo ⧉

May 2016 - September 2016

My first major consumer-facing product. I was involved in the design and development of this web app under Treebo's rewards and loyalty programme. Apart from the web app, I was also responsible for building mechanisms for throttling inventory and pricing, integration with a 3rd party Central Reservation system and building a robust admin panel focusing on tight ACLs.

👥 *10,000+ user base* • 🛡 *20 % of quality audit*

Finance Planning and Accounting, Infosys

June 2014 - April 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.

Side-Projects

Argos ⧉

December 2017 - Conceptualized

The aim of argos is to categorize and provide semantic search on images in our photo galleries. This is done by extracting text out of images partly on the device and partly on cloud and processing it.

Feature Toggle, PyPi ⧉

September 2017

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. Extensive customizability and inherently modular design choices were the focus in this project. First hand experience in packaging a project, hosting github pages ("*gh pages*") with "*read the docs*" and "*Sphinx*" and .

Logistika ⧉

February 2017

A django project aimed at building modular order management system which can also serve as Vendor portal. Features full user registration/Login, Audit log, Access control and Vendor Discovery. This project also served as a means to refresh my frontend skills as well. Hosted on gitlab.

Volunteer, Shiksha Foundation

August 2015 - March 2016

I have volunteered to teach 6-8th standard students in English and Physics in Urapakkam public school under the Shiksha Foundation during my term at Infosys.

Education

Bachelor of Engineering in Mechanical

Hindustan University, Chennai. • Chennai, India. • 2014 • 8.75 GPA

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