

# Baradwaj Venkatesan

## Software Engineer

Polygot developer with problem solving skills and immense passion for programming

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## WORK EXPERIENCE

### Software Engineer

#### Samsung Electronics - Digital E-Commerce Team

06/2018 – Present

Chennai, India

Samsung Digital E-Commerce team is responsible for building a highly scalable online e-commerce platform for buying and selling Samsung products across various countries. I am taking care of 3 critical microservices - pricing engine, rewards, and payments

##### Tasks

- Pricing Engine - Backend microservice which stores information related to offers, discounts, discount-stores and does sku/cart arbitrations based on offers and eligible discounts.
- Reduced the time taken for publishing 100K coupons from 30 minutes to less than 1 minute by implementing a high performant, self-reliant coupon pre-generation algorithm along with coupon archiver.
- Designed and added various rule representations to run different types of offers concurrently across more than 3000 SKUs.
- Improved the latency of ingestion endpoints by 100% by implementing highly optimized rolling cache by setting accurate TTL values and caching empty objects.
- Improved the unit test coverage from 70% to 88% by refactoring complete cart/sku arbitration based on the single responsibility principle.
- Rolled-out pricing-engine (US) to pricing-engine (global) to extend the service to other countries with the highest code quality with nil P0 bugs in production.
- Taken ownership on various programs like Hard-bundle, B2B TradeIn, Affirm Financing, Bump-up rewards, Davinci promotion from end to end in pricing-engine.
- Payments Service - Designed and implemented the re-auth, refunds on re-auth and retry refunds failure flows in a very short span of time. This feature has collected over 1 million USD from customers when the product shipment is outside of auth validity window.

*Tech Stack:* Node JS, Postgres, Redis, RabbitMQ, ELK with Logstash, Filebeat and Kibana for Logs and Monitoring

### Platform Engineer

#### Freshworks Inc (Formerly Freshdesk)

06/2016 – 04/2018

Chennai

##### Tasks

- FreshId - Built a FreshId system that manages user identity and enables seamless Single Sign-On (SSO) and cross-sell between Freshworks products.
- Increased the cross-sell by 20% by implementing SSO solution in compliance to OAuth 2.0 Framework.
- Improved the API latency by 24% by caching repetitive DB calls through distributed and remote load testing using Jmeter.
- Reduced the payload size of a core entity by more than 60% by re-modeling the existing format and API design.
- Filtering the fraud login calls by 40% in client-side by adding Google Recaptcha2 in FreshId.

*Tech Stack:* Ruby On Rails, Java

### Software Development Engineer Internship

#### Freshworks Inc (Formerly Freshdesk)

12/2015 – 05/2016

Chennai

##### Tasks

- Built a dynamic data manager using NoSQL backed querying and reporting.

### Software Development Engineer Internship

#### Oracle Inc

06/2014 – 07/2014

Chennai

##### Tasks

- Proof of concept on generating Java classes for RAD application

## SKILLS

C++

NodeJS

Ruby

C

Rails

Algorithms

Data Structures

Basic Devops

RabbitMQ

Redis

PostgreSQL

## ACHIEVEMENTS

'Building the best teams' Award @ Samsung

Qualified to represent SASTRA University in ACM ICPC Kolkata APAC Regionals

Awarded with Dean's Merit Scholarship for being among the top 10% rankholders across all departments

Received "RAMANUJAN AWARD" for outstanding merit in Mathematics Olympiads

Top 10% in AMTI Competition

Qualified in Regional Mathematics Olympiad (RMO)

## EDUCATION

### B.Tech Computer Science

SASTRA University - CGPA - 8.4/10

06/2012 – 06/2016

### Modern Senior Secondary School, Chennai

AISSCE - XII - 87%

06/2011 – 06/2012

### Modern Senior Secondary School, Chennai

AISSE - X - 90%

06/2009 – 06/2010

## INTERESTS

Cricket

Snooker

Cinema

Music