

Pramod Nanduri

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Professional Work Experience:

Principal Software Engineer, Coupang

August 2019 - Present

- Developed solution for database sharding for existing relational database for pricing project at Coupang result of which we are able to scale to billions of requests for pricing platform using Amazon RDS and Sharding sphere frameworks.
- Architected and developed distributed backend systems for Coupang Global retail team to process customer orders, purchase orders and various other modules to onboard multiple providers into the systems with APIs built on REST, FTP using Spring Boot, Java, AWS Sqs, SNS, DynamoDB, S3 and BeanIO libraries.
- Completely led and delivered the Multi carrier integration for CJ project by coordinating cross teams across four different teams (GlobalTech, Warehouse, FTD, CJ) and developed a scalable, extensible solution for the same. Result of this, we are able to reduce shipping costs by 20%. Overall we are able to save \$2.4 million dollar per annum by switching logistics carriers from ACI to CJ using the above technology.
- Designed and implemented a distributed lock framework based on DynamoDB, AWSLockClients and built a scalable concurrent processing system for inventory management, the result of which the JIKGU tech scalability increased from 1x to 5x load.
- Built a common framework for items, carrier management and integrated alarm systems for system monitoring based on Kibana, Logstash and elastic search, grafana dashboard which reduced the overall system failures from 20% to 0.01%.

Patents:

1. Developed a system for virtual bundle rebalancing for coupang virtual bundle products result of which we are able to present dynamic bundled products to customers
<https://patents.justia.com/patent/10997554>
2. Designed and developed a central monitoring system for coupang customer order monitoring to track missing projected delivery date for customer orders (Patent pending).

Software Engineer Intern, Coupang

June 2018 - June 2019

- Designed and implemented a distributed, configurable queue client framework that runs on top of AWS queuing system (SQS) which enabled our coupang global business to process millions of messages each day spanning across multiple queues using Java, AWS, DynamoDB, SNS.

Lead Software Developer, ZohoCorp Pvt Ltd

July 2013 - July 2017

- Architected and developed critical Spam reduction algorithms that reduced overall spam emails entering into Zoho Mail SAAS based web service from 50% to about 3% using Java, MySQL, HBase, Redis, Memcached, Shell, SOAP technologies as a module Owner.
- Designed and implemented a reputation based intelligent abuse control system which increased email deliverability rates on an average of 10 M compared to 5M emails per day using Java, HBase following Agile(Scrum) methodologies.
- Devised push notification and smart filter modules which scaled the message processing rates to about 20M instant push notifications via websockets, APNS and GCM cloud integrations based on Java, MySQL, Redis.
- Optimized storage systems and implemented distributed cache for message delivery framework using HBase queue based communication across servers which promoted me as Lead developer

- Awarded as **Best Employee** from FSI vertical for best performance in SPIDER project modules for delivering bug free modules through validation of millions of data generated by client sandboxes of cloud based SPIDER web service using SQL, Java.
- Developed dynamic homepage screens, privilege based screens, login and signup screens for Appraisal Management System using Java EE, JSF, JPA, JavaScript, jQuery, CSS.

Handpicked Personal & Academic Projects:

- **ClipIt Universal Copy:** Architected and developed Universal copy paste Android application which can do a distributed copy paste of content and files across multi platform devices based on Google Firebase, Android Platform, Realtime database, Google Cloud Push notifications.
- **Groupsone:** Founded groupsone.com where users can search for useful social groups with Java, MySQL, Twitter Bootstrap and Heroku based hosting with GIT code management that served thousands of users each day.

Education:

- Completed Masters in Computer Science & Engineering, Santa Clara University, June 2019.
- Bachelors in Electronics and Communication Engineering, Andhra University, June 2011.

Relevant Coursework: Advanced Design & Analysis of Algorithms, Operating Systems, Android App development, Pattern recognition and data mining, Computer Architecture.

Technical Skill Set: Java, MySQL, HBase, Cloud, HTML, JavaScript, CSS, Shell, C, Web Services, REST, SOAP.

Competitions & Activities:

- Received 1st Prize in BroncoHack 2018 Coding competition for developing Vision app for Blind people using Raspberry PI, Android App development, Web Servers and AWS.
- Microsoft specialist certified HTML/CSS/JavaScript developer.
- Winner of badminton championship and Man of the match award winner for cricket cup, Zohocorp.