

## SUMMARY

- Graduate student with over 2 years of experience in full stack web development specializing in distributed systems
- Demonstrated ability to pick up new technologies to deliver scalable, efficient and maintainable software

## TECHNICAL SKILLS

Front-End Technologies	React, Redux, ES6, JSX, KnockoutJS, HTML5, CSS3, SCSS, Bootstrap, Material UI, jQuery AngularJS, D3.js, Webpack, Lodash, Gulp, Babel, Npm, Yarn
Back-End Technologies	<b>Java</b> ( Spring Boot, Hibernate, Netty, RabbitMQ, Protobuf ), <b>Python</b> ( Flask, Pika, SQLAlchemy ) <b>ES6</b> ( Node.js, Express, Sequelize, Mongoose ), <b>C#</b> ( ASP.NET MVC, WCF, Sitecore, SignalR )
Databases	MySQL, MongoDB, MS SQL Server, Redis, Elasticsearch
DevOps	Docker, AWS (EC2, RDS), Git, Ant, Maven
Testing Tools	JMeter, Mocha, JUnit

## WORK EXPERIENCE

### Software Developer Intern - Labyakk

Aug 2017 – Present

- Developing REST services and data modelling for the MVP version of a life-science research tool from the ground up
- Minimized defects by 60% by setting up automated unit tests on pre-commit hooks and task runners
- Improved full-text search speed by 70% by migrating from MongoDB to Elasticsearch and Logstash
- **Technologies** ES6 | NodeJs | Express | AWS ( RDS, EC2, Elasticsearch ) | Docker | Gulp | Babel | Yarn | Mocha

### Software Developer Intern - SS&C Advent

Jun 2017 – Aug 2017

- Developed React components and implemented real time data visualisation for a workflow management tool
- Migrated metadata driven Angular based components (modals, forms, grids) to React components
- **Technologies** : ES6 | React | JSX | Redux | SCSS | Webpack | Mocha | C# | Websockets

### Student Assistant - Data Mining Lab – San Jose State University

Jan 2017 – May 2017

- Automated C++/Python assignment evaluation and grading by building distributed and dockerized RESTful service
- Implemented auto-scaling of service, RPC and pub-sub based communication between various services
- **Technologies**: Python | Docker | Flask | RabbitMQ (Pika) | SQLAlchemy | MySQL

### Software Engineering Analyst – Accenture Services Ltd

Dec 2014 – Jun 2016

- Built a metadata driven [JavaScript framework](#) that decreased 90% of the code for forms, validation & workflows
- Developed, integrated and unit tested REST services, CMS components and UI for the website [prestocard.ca](#)
- Improved API performance through caching and asynchronous task execution by 40%
- **Technologies**: C# | KnockoutJS | ASP.NET MVC | JQuery | HTML | Bootstrap | SQL | Sitecore

## SELECT ACADEMIC PROJECTS

<https://github.com/rentala>

### Project Gossamer - A Distributed File Storage System

- Led a 3 member team to implement raft consensus algorithm, data sharding, replication, dynamic message routing and node failure detection (heartbeat implementation) to build a fault tolerant distributed file storage system
- Optimized read operations by 4X using multi threading, exclusive read request queues, work stealing and work sharing
- **Technologies**: Java | MySQL | Netty | Google Protobuf

### E-Commerce Web Application

- Developed an n-tiered marketplace application with REST API's where users can buy, sell or bid for products
- Optimized performance with NoSQL, SQL Caching using Redis and connection pooling by 32%
- **Technologies**: Java | Spring Boot | AngularJS | Hibernate | MySQL | Maven | RabbitMQ | Redis | D3.js | JMeter

### Amazon Review Classification

- Implemented KNN and achieved 83% accuracy in classifying amazon reviews as positive or negative for 18,000 reviews
- **Technologies**: Python | Jupyter Notebook | NumPy | SciPy

## EDUCATIONAL QUALIFICATIONS

**Master of Science in Software Engineering** | San Jose State University, San Jose, CA | GPA 3.5/4

Sep 2016 – May 2018

**Bachelor of Engineering in Electrical Engineering** | Osmania University, India

Oct 2010 - May 2014

Volunteering Activities: Co-Founder, Football Development Association (FDA), Business Development Manager - AIESEC Hyderabad