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ANUDEEP RENTALA

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SUMMARY

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

TECHNICAL SKILLS

Back-End Technologies	Java, Python, C#, RabbitMQ , ASP.NET MVC, Node.js, Flask, Web Services(REST/SOAP),
Databases	MySQL, MongoDb, MS SQL Server, Redis
DevOps	AWS (EC2, RDS), Docker, Git, Ant
Front-End Technologies	AngularJS, JQuery, KnockoutJS, D3.js, HTML5, Material UI, CSS3, Bootstrap, JavaScript
Testing Tools	JUnit, JMeter, Mocha.js

WORK EXPERIENCE

Student Assistant - Data Mining Lab – San Jose State University   *Jan 2017 – May 2017*
- Automated C++/C/Python data science assignment evaluation and grading by building a distributed and dockerized RESTful service
- **Technologies: Python | Flask | Docker | RabbitMQ(Pika) | MySQL**

Software Engineering Analyst – Accenture Services Ltd   *Dec 2014 – Jun 2016*
- Developed, integrated and unit tested REST services, CMS components and UI for the ecommerce website prestocard.ca
- Improved performance through caching and asynchronous task execution by 40%
- Built SPAs and a JavaScript framework that decreased 90% of the potential code for dynamic form generation and validations
- **Technologies: C# | SQL | ASP.NET MVC | KnockoutJS | JQuery | HTML | Bootstrap | WCF**

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, node failure detection (heartbeat implementation) and new node discovery to build a fault tolerant distributed file storage system
- Optimized read operations by 4X using multi threading and pooling, exclusive read request queues, work stealing and work sharing
- **Technologies: Java | Netty | Google Protobuf**

eLodge - Hotel Booking Web Application
- Developed a n-tiered bed and breakfast booking system where users can rent or put up a place for rent with RESTful services
- Optimized performance with NoSQL, SQL Caching using Redis and connection pooling by 32%
- Provided an Analytics Dashboard to display key metrics using D3.js
- **Technologies: NodeJS| RabbitMQ | MongoDb | Redis | AngularJS | HTML5 | Bootstrap | D3.js | Mocha.js | Passport.js | JMeter**

E-Commerce Marketplace Web Application
- Developed a marketplace application with REST based services from scratch where customers can buy, sell or bid for products
- Used Agile methodologies and Test Driven Development to develop and test using JMeter, Mocha.js and JUnit for 10K users
- **Technologies: AngularJS | NodeJS| MongoDb | RabbitMQ | MySQL | HTML5 | Bootstrap | Mocha.js | Passport.js |JMeter**

Drug Activity Prediction
- Developed a model that classifies active (binding) compounds from the inactive (non-binding) receptors using PCA, Random forests and weight corrections for high dimensional and highly imbalanced data set (94% inactive, 6% active) with 0.81 F-1 score
- **Technologies: Python | Jupyter Notebook | NumPy | SciPy**

CSNet - Community-based Social Network
- Developed a highly scalable and available social network as a service application with REST based services utilizing AWS services
- **Technologies: Python | Flask | AWS (RDS, EC2) | Material Design | Vis.js | SQLAlchemy | HTML5**

Cognitive Customer Support
- Provides email response recommendations to customer support executives to respond to customer emails with 72% accuracy
- **Technologies: IBM Watson | MongoDb | Nodejs | Heroku | Gmail API**

EDUCATIONAL QUALIFICATIONS

Master of Science in Software Engineering | San Jose State University, San Jose, CA | GPA 3.8/4   *Sep 2016 – May 2018*
Courses: Software Engineering (Design Patterns, UML), Distributed Systems, Data Mining, Cloud Technologies, Enterprise Application Development
Bachelor of Engineering in Electrical Engineering | Osmania University, India   *Oct 2010 - May 2014*