Jathin Dhulipalla

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SUMMARY

Software Engineer with emphasis on platform automation and scalability

EDUCATION

Texas A&M University College Station, Texas
Master of Science in Management Information Systems May 2020
Coursework: Analysis of Algorithms, Adv. Data Management (NoSQL), Engineering Data Analysis (ML), IS Design and Development (Full Stack Web App Development, HCI), Adv. Systems Analysis and Design (UML, Agile)

Birla Institute of Technology and Science, Pilani Hyderabad, India
Bachelor of Engineering in Mechanical Engineering and Master of Science in Physics July 2017
Coursework: Computer Programming, Probability & Statistics, Computational Physics, Computer-Aided Design

TECHNICAL SKILLS & CERTIFICATIONS

Languages: Java, Python, SQL, JavaScript
Database: MySQL, SQL Server, MongoDB
Cloud: AWS (EC2, S3, CloudFormation, Lambda)
Web: HTML, CSS, React, Redux, Spring, Flask, Node.js
Platform: Docker, Kubernetes, Jenkins, Git
Certifications: Certified Kubernetes Application Developer

EXPERIENCE

TriNet Group, Inc. *(Nation's largest independent Professional Employer Organization)* Austin, Texas
Software Engineer II July 2020 – Present

- Championed Connect360 product launch by developing a highly customizable and scalable application that triages all incoming customer requests to relevant business teams
- Ensured High Availability (99.4%) by packaging application and NLP dependency as multi-container Deployment
- Downsizing server footprint by 60% by migrating platform to AWS EC2 and leveraging Lambda service
- Initiated and collaborated on platform integrations between multiple systems reducing downtimes by over 80%
- Streamlined SOX tracking by building CI/CD pipeline with Jenkins and Urbancode; integrated releases with Jira

Gap Inc. *(Clothing retailer with operations across the globe)* Hyderabad, India
Network Analyst July 2017 – May 2018

- Identified frequently occurring issues by building Tableau dashboards and pipeline from ServiceNow with Python
- Automated basic troubleshooting and monitoring activities for incidents using cloud-based network device APIs
- Facilitated reduction in hold times by creating a rule-based chatbot on JavaScript for helpdesk to cut times by 10%

PROJECTS

Library Analysis Web Application *(EC2, Flask, Python, MongoDB, Distributed, ETL pipeline)* Fall, 2019

- Performed ETL on Seattle Library data with Scala and Apache Spark to query trending multimedia and authors
- Sharded MariaDB on EC2 cluster to achieve high availability and constructed REST APIs using Flask for CRUD
- Optimized queries by migrating data to MongoDB with well-designed aggregate; scaled horizontally on GCP to ensure high availability and eventual consistency

Smart Cooking: Spoons & Ladles *(JavaScript, React, Spring Boot, Java, MySQL, AWS)* Spring, 2020

- Website enabled recipe finding by ingredients, posting recipes, signups, authentication, and access management
- Designed web application focusing on HCI principles with frontend made on React and hosted on Netlify; backend was set up with Spring Boot deployed on Heroku and MySQL database on EC2

Image Classification *(Machine Learning, Neural Networks)* Fall, 2019

- Quantitative and qualitative analysis of non-neural network models (SVM, QDA, Boosting, Random Forest) after identifying features explaining 95% variance using PCA and obtained 52% accuracy with QDA
- Finally trained CNN model with data augmentation, batch normalization, and dropout for obtaining 72% accuracy

Algorithm Performance for Networks *(Java, Data Structures, Graph Theory, OOP)* Fall, 2019

- Developed application in Java to analyze the performance of graph algorithms in random dense and sparse networks
- Process involved generating graphs of various densities and assessing single source and MST computation times