Lohith Raj Sure Nagaraja

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EDUCATION

San Jose State University   August 2022 – May 2024
Master of Science, Computer Science | GPA: 4.0 / 4.0   San Jose, CA
Relevant Coursework: Advanced Programming Language Principles, Design and Analysis of Algorithms, NoSQL Databases, Topics in ML

Visveswaraya Technological University   August 2016 – July 2020
Bachelor of Engineering, Computer Science | GPA: 3.8 / 4.0   Bengaluru, India

TECHNICAL SKILLS

Programming: JavaScript(ES6+), Python, Java, HTML, CSS
Frameworks: React, Node.js, Express.js, Flask, Angular, Material UI, jQuery, Mocha, Chai.js
Databases: SQL (Relational), Hive (HDFS), MongoDB and Cassandra (NoSQL)
Libraries: pandas, NumPy, Matplotlib, OpenCV, pymongo, multiprocessing
Other tools: Amazon AWS(EC2), Git, VS Code, Python Notebooks, Nginx, Postman, Pentaho Data Integration, Oracle EDQ

WORK EXPERIENCE

Software Engineer, Persistent, Bengaluru, India   August 2020 – July 2022
- Designed and implemented the front end, responsive UI and API endpoints of the hot desking admin and user applications to facilitate a seamless work from office experience for 21000+ employees at Persistent Systems.
- Collaborated with client team to understand and solve bottlenecks and proposed improvements to product design and feature expansions. Defined, designed and shipped 5 new features.
- Led the deployment of the hot desking application on AWS terminal server. The frontend application's performance improved by 150% as a result of migration from Apache HTTP to Nginx.
- Automated manual tasks using Python to support the QA team during data migration from Rackspace to Microsoft Azure, expediting data validation of 2400 tables with minimal downtime of ingestion jobs.

Software Developer Intern, Ellucian, Bengaluru, India   January 2020 – April 2020
- Designed, developed, tested, and documented 20+ API endpoints using Node.js to add more functionalities to the Ellucian Analytics dashboard.
- Remodelled the Ellucian Enterprise ETL pipeline by leveraging Shell scripts and added a validation module to check data for inconsistencies.
- Implemented progressive rendering in Angular to enhance performance of rendering large lists by 20%.

PERSONAL PROJECTS

e-Commerce Website - Amazon Clone | React, Node.js, Express.js, MongoDB   December 2022
- Developed a full stack web application similar to the Amazon website that allows users to login, view products, select and add items to their cart and make purchases.
- Added more features for users to view and edit existing orders, save addresses and payment details.

NextBook | TensorFlow, Python, Flask, ReactJS, MongoDB   March 2021
- Led a group of four to build a recommender system that suggests books to users from a collection of 10 million titles based on read history and rating.
- Designed the MongoDB database model, implemented sharding (partitioning), replication, indexing and optimized queries to enhance query performance by 40%.

Criminal Surveillance and Tracking | Python, Flask, Angular, MongoDB   July 2020
- Analysed the OpenCV's LBPH face recognizer and modified the algorithm to increase its accuracy by 4.4%.
- Implemented an Angular application that alerts law enforcement agencies about the location through notifications and text messages when a fugitive is recognized on surveillance cameras.

ACHIEVEMENTS AND ACTIVITIES

- Winner of the **Ellucian Intern Hackathon** among 40 global teams.
- Organized workshops, hackathons, and tech meetups as a member of the **Google Developer Student Club at BIT.**