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: Design and Analysis of Algorithms, Topics in AI, Operating Systems, Distrbuted Computing

Visvesvaraya Technological University **August 2016 – May 2020**
Bachelor of Engineering, Computer Science - GPA: 8.41 / 10.0 Bengaluru, India

Technical Skills

Programming Languages: Python, Java, C, C++, JavaScript, Typescript
Web Technologies: HTML, CSS, React, Redux, Angular, jQuery, NodeJS, Spring Boot, Flask, FastAPI
Databases: SQL (Relational), Hive (HDFS), MongoDB and Cassandra (NoSQL)
Other: Continuous Integration/Continuous Delivery (Jenkins and Docker), Git, Amazon EC2

Experience

Persistent Systems **October 2020 – July 2022**
Software Engineer 1 | Angular, Node.js, Nginx, Python, Git Bangalore, India
- Implemented critical components and services for a hot desking application in a fast-paced Agile Scrum environment, effectively streamlining workplace reservation processes for a user base exceeding 50,000. Ensured adherence to the software development lifecycle, optimizing efficiency and delivering high-quality results.
- Led the migration and deployment of hot-desking web app from Apache HTTP to Nginx on AWS virtual machine, resulting in 30% improvement in response time and 50% increase in server capacity. Configured SSL encryption, security, caching, and access control for reliable and secure operation.
- Collaborated with client and senior developers to understand and solve bottlenecks, conduct code reviews, debugging, and propose product expansions. Designed, implemented and shipped 6 new features.
- Created a Python module to expedite the data validation of 2400 tables during the data lake migration from Rackspace to Microsoft Azure cloud, resulting in minimal downtime for ingestion jobs and improved QA team efficiency.

Ellucian **January 2020 – April 2020**
Software Engineering Intern | Jenkins, Node.js, Shell, Git Bangalore, India
- Developed, tested and integrated web services for the Ellucian Student Analytics Dashboard, enabling seamless access to vital student data and empowering informed decision-making.
- Integrated a cutting-edge data validation module into the Ellucian Enterprise ETL pipeline using Shell scripts to detect and address data inconsistencies, resulting in enhanced system accuracy and efficiency.

Projects

A Blockchian Based Supply Chain Management System | ReactJS, Node.js, Express.js, Solidity **March 2023**
- Developed and deployed the application using Ethereum smart contracts, ERC-721 NFTs, and IPFS integration, ensuring transparent tracking and verification of product authenticity.
- Integrated Solidity-based smart contracts with IPFS for decentralized file storage, enabling secure tracking of pharmaceutical products.

Stocks Purchase Manager | Java, Java Swing **September 2022**
- Engineered a object-oriented Java application with a 3-tiered MVC Architecture, integrating various design patterns like Builder Pattern, Visitor Pattern, etc. to simulate the functioning of a Portfolio Manager.
- Leveraged financial APIs and various data analysis tools such as Yahoo Finance, Alpha Vantage, and Bloomberg to collect market data, empowering users to make well-informed investment decisions.

Chirp - A Full Stack Application simulating Twitter | React, Node.js, MongoDB **June 2023**
- Architectured and built a scalable full stack application to simulate functionalities of Twitter. Implemented user authentication, hashtags, mentions, and news feed functionality to deliver an engaging social media experience.
- Optimized performance of the application by distributing traffic across multiple servers using load balancing techniques.

Achievements and Activities

- **Winner** of the **Ellucian Intern Hackathon** among 40 global teams.
- Member of the SpartUp Incubator Program, helping students with startups ideas.
- Organized workshops, hackathons, and tech meetups as a member of the **Google Developer Student Club at BIT.**