

# 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 Engineer 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**.