Sreeram Charagundla

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Education

Northeastern University, Boston, Massachusetts Jan 2023-Present
M.S. in Software Engineering | GPA: 3.8
Relevant Coursework: Application Engineering and Development, System Design, Program Structures and Algorithms, Web Tools, Operating Systems, Big Data Applications and Indexing Techniques.

GITAM University Hyderabad, India
Bachelor of Technology, Computer Science and Engineering June 2016 - Nov 2020
Relevant Coursework: DBMS, Operating System, Object Oriented Programming, DSA, UNIX programming.

Skills

Programming Languages: Java, Python, HTML, CSS, MySQL, JavaScript, C, C++
Frameworks: Spring Boot, Express JS, Node JS, Angular JS, Typescript
Technologies: Oracle SQL, PostgreSQL, SQL Server, Mongo DB, Redis, REST API, Dynatrace, GIT, Postman, Stream processing using Kafka.

Work Experience

Infosys Hyderabad, India
Software Engineer Jan 2021 - Dec 2022
Income Tax portal:
- Served as a Backend developer for the Tax Filing portal, Government of India. Having over 950 million Taxpayers in the country every year. I worked for the pre-fill module.
- Every Taxpayer in the country upon logging in to the portal will have their applicable fields as per business requirements filled already from the Database.
- Implemented a Kafka mechanism that takes chunks of data from the DB and passes on to the Spring Boot Application to perform computations and store everything in a JSON file to further show up on the portal.
- Above approach needed enhancements such as faster computations of data. Hence, we built another spring batch application that runs on 10,000 records of data every minute than relying on Kafka to pull records from DB.

Wanderlust Website:
- Spearheaded the development of a website that lets users book travel packages. Client having a bunch of holiday destinations where the user can book packages and manage bookings, avoiding date clashes etc. Used Full Stack technologies like MEAN – MongoDB, Express JS, Angular, Node JS.

Projects

Inventory Management System for Retail Businesses | Course: Design Patterns Dec 2023
- Coordinated with a team of 4 and developed an interesting full stack project using Spring Boot, React and SQL server enabling retail businesses manage their inventory, update stock using CRUD operations and manage orders received from the customers.

Portal for Thalassemia donors | Course: Application Engineering and Development Apr 2023
- Thalassemia is a blood disease affecting roughly 1 in 100,000 individuals. However, most deaths occur due to lack of blood donor availability in the right time. We came up with a portal that brings donors, doctors and patients under a platform to help coordinate better.

Jewelry Augmentation using Object Detection | Course: ML with Python Apr 2023
- An E-Commerce utility that helps user to try necklace virtually in real time. Accuracy of 97%.
- Coordinated with a team of four and developed this utility that takes picture of a necklace as an input and triggers the webcam of laptop detecting the neck of a user and augments the jewelry virtually to shop better.
- Uses Convolutional Neural Networks to detect facial features of a person. Identifying the Region of Interest and resizing the jewelry according to the distance between camera and person is crucial. Libraries - NumPy, CV2.