

SUGAM DEVARE

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EDUCATION

Stony Brook University, New York

May 2024

Masters of Science in Computer Science

Relevant Coursework - Natural Language Processing, Computer Vision, Human-Computer Interaction

University of Mumbai, India

May 2020

Bachelors of Engineering in Computer Engineering | GPA: 8.82

Relevant Coursework - Data Structures & Algorithms, Database Systems, Machine Learning, Distributed Computing, Operating Systems

SKILLS

Languages –	Java, Python, Javascript, Typescript
Databases –	MySQL, PostgreSQL, Oracle, MongoDB
Web Development –	Spring Boot, Django, Flask, AWS, React, Redux, Firebase, Node.js, FastAPI, Kafka
Machine Learning –	Scikit-learn, Pandas, Keras, Tensorflow, PyTorch
Tools and Others –	Git, IntelliJ IDEA, VSCode, Docker, Android Studio

WORK EXPERIENCE

JPMorgan Chase & Co. | Mumbai, India.

Feb 2021 – Jul 2022

Software Developer II

- Migrated the trade processing and report generation platform from virtual service infrastructure (VSI) to a Cloud Native solution using Cloud Foundry and configured monitoring, logging, authentication, authorisation and cloud storage services.
- Reduced the trade processing time by 50% and enhanced the application's stability by implementing a multi-threaded Kafka consumer model to consume incoming messages and persist them in the database efficiently.
- Conceptualized and built micro-services using Spring Boot and Docker for automated trade processing and business reconciliation module for offshore clients, eliminating manual intervention and enabling T+1 settlements, allowing the firm to onboard clients faster.
- Configured CI/CD pipeline using Jenkins to automate deployment across DEV, UAT and PROD environments and onboarded the SonarQube plugin to perform continuous code inspections and Pull Request(PR) analysis.

JPMorgan Chase & Co. | Mumbai, India

Aug 2020 – Feb 2021

Software Developer

- Created a web application using React and React Query that enables users to query, modify, and download files from the firm's simple storage service (S3) using various configurable filters allowing quick and convenient access to data files.
- Improved the end-of-day batch performance by 4+ hours by implementing REST API Pagination, load balancing and multithreading, allowing parallel execution and processing across all the application instances.

Igmite Solutions | Mumbai, India

Jun 2019 – Aug 2019

Typescript Developer Intern

- Designed and developed the student administration and course planning components using Angular 8 and Material Design and worked with the backend team in designing and testing APIs on the Enterprise Resource Planning (ERP) application used by Vidyalankar Institute of Technology, Mumbai.

PROJECTS

AI for Accessibility: Virtual Assistant for Hearing Impaired

Dec 2019 – Mar 2020

- Developed a mobile application that detects and classifies sounds in real time and alerts the user via vibrations and visual notifications. Implemented an Indian Sign Language gesture detection model with an inference time of 1 second.
- 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT) - DOI: 10.1109/ICCCNT49239.2020.9225392.

Incread: Prioritised reading

Nov 2019 – Jan 2020

- Built a Progressive Web Application and deployed it on AWS EC2 that enabled users to prioritize their reading list and keep track of the number of articles saved, the number of articles read, and the minutes they read every week on the Pocket Application. This motivated users to read more by comparing their performance to previous weeks.

Pothole Detection And Analysis

Jan 2019 – Apr 2019

- Configured and trained a Mask R-CNN model for pothole detection from images and calculated dimensions and area of the pothole using Ground Sample Distance. Developed an Android App for users to report potholes and track the complaint status.

ACHIEVEMENTS

- Winner - JPMorgan Chase Mumbai Hackathon 2020
- 1st Runner Up - Syrus Hackathon 2019, Codecell - VESIT
- Ranked 9th out of 3000 in CodeIT Suisse Hackathon 2019, Credit Suisse
- Subject Matter Expert (SME) for Django and React in the JPMorgan Chase Code For Good Hackathon 2022