JONATHAN DABREO

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EXPERIENCE

Goldman Sachs | Analyst - Bangalore, India **Jul 2022 - present**

Third Party Sweeps (Sep 2023 - present)

- Implementing new features and functionality in the UI, using React and Redux.
- Working on the existing payment flows implemented in Spring Boot, contributing to the reliability and efficiency of the payment processing system.
- Conducting code reviews and participating in collaborative discussions to maintain code quality, identify potential improvements and share best practices with the development team.

FDIC TECH (Dec 2022 - Aug 2023)

- Developed and maintained calculator logic flow that calculates FDIC insurance for business accounts across various businesses of the firm.
- Utilized Python and FastAPI framework to build the backend functionality of the application. Implemented validation processes to ensure data accuracy and reliability.
- Deployed the application on Kubernetes for scalability and fault tolerance.

GS Bank Engineering (July 2022 - Nov 2022)

- Led the migration of an existing monolithic service to a microservice-based architecture.
- Designed and implemented the switching logic for application services during the migration process.
- Worked on developing a highly available real-time regulatory application for trade checks and controls to determine trade acceptance or rejection.
- Utilized Java and Spring Boot framework to build the backend infrastructure of the application, ensuring scalability and fault tolerance.

Goldman Sachs | GS Bank Engineering | Intern - Bangalore, India **May 2021- Jul 2021, Jan 2022 - Jun 2022**

- Implemented the POC for the migration of an existing monolithic service to a microservice-based architecture.
- Documented the design challenges and performance improvement for the new architecture.
- Utilized Java and Spring Boot framework to build the backend infrastructure of the application

JRA Law Associates | Technical Intern - Mumbai, India **July 2021 - Dec 2021**

- Collaborated with cross-functional teams to gather requirements to build the firm's website.
- Explored automation vendor tools for SMS and email campaigns, leading to the implementation of streamlined communication strategies and enhanced client engagement.
- Implemented case management solutions which optimized internal processes and hence contributed to a more efficient workflow.

EDUCATION

Bachelor of Technology in Computer Science and Engineering

Maulana Azad National Institute of Technology, Bhopal **May 2018 - Apr 2022**

- CGPA : 8.64
- Relevant Coursework: OOPs, Operating Systems, DBMS, Computer Networks, DSA

TECHNICAL SKILLS

- **Frameworks**: Reactjs, Redux, Nextjs, Nodejs, Express, Tailswind, SpringBoot, Flask, FastAPI
- **Languages**: Javascript(ES6/7/8), Typescript, Java, Python, C++, C, SQL
- **Developer Tools**: Git, GitLab, VS Code, IntelliJ IDEA, Docker, Kubernetes, Jira, JUnit, pytest, MySQL Workbench, MongoDB Compass, Postman, Swagger/OpenAPI. Prometheus, Grafana.

PROJECTS

Efficient Seed Region Growing Segmentation

Prof. Jyoti Bharti ,Computer Vision | Technologies Used : MATLAB, Python , Opencv

- Proposed methodology for the automatic segmentation and selection of seed point, a task that needed to be performed manually.
- Seed points are determined with 92 % accuracy using this novel method, utilizing the pixel distribution and intensity values to estimate the size and location of anomaly.

Edumode Application

Technologies Used : Html , Css , JavaScript, PHP, Python

- Edumode is a dashboard that allows teachers to conduct SMS based objective test for students during virtual classes to evaluate students who do not have access to smart phones.
- Seed points are determined with 92 % accuracy using this novel method, utilizing the pixel distribution and intensity values to estimate the size and location of anomaly.

Panorama using Image Stitching

Prof. Dheerendra Singh, Computer Vision | Technologies Used : MATLAB, Python , Opencv

- Used a graph with matching distance as edge weight between images for calculating a MST for best possible positioning.
- recursive method is called to find homographs and stitch images using alpha blending.

EXTRA-CURRICULAR ACTIVITIES

- Co-coordinator at VISION, technical society of MANIT.
- Team Manager at IBC (Intellect Browsers' Consortium) - literary society of MANIT.
- Organized and participated in
  – Noesis 5.0 flagship event of VISION CSE which involved teaching and conduction workshops on python, C/C++ programming for students from colleges across Bhopal.
  – Inter-college MUN (Model United Nations).