

Pratik Joseph Dabre

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EXPERIENCE

Software Development Intern, IBM

May 2022 - Nov 2022

- Designed, developed, and deployed 3 different use-cases for IBM's Netezza database on cloud, resulting in an increase in the number of new clients who adopted the database over the course of 6 months.
- Migrated the entire asynchronous disaster recovery solution codebase from Python 2.x to Python 3.x, consisting of 2,000+ lines of code. Resolved 50+ compatibility issues and reduced the number of dependencies by 15%, resulting in a more efficient and maintainable codebase.
- Designed and implemented 300+ test cases using TypeScript for testing of a complex web application with 10+ features and achieved 80% test coverage.

Software Development Intern, TechRupt Innovations

May 2021 - Jun 2021

- Collaborated with a team of five developers to develop a user-friendly dashboard with intuitive navigation and clear calls-to-action, resulting in a 30% increase in user retention.

SKILLS

Languages: Java, Python, JavaScript, SQL, C, C++, Bash

Frameworks: NodeJS, Express, ReactJS, Redux, HTML, CSS, Django, JSON, Kafka, Flask, Spark

Databases: PostgreSQL, MongoDB, Redis, Netezza, MySQL

Software and Tools: Git, VS code, GitHub, JIRA, Postman, Selenium

Platforms:: AWS EC2, Linux, MacOS, Docker, Kubernetes

PROJECTS

California Driver's Handbook Chatbot

- Built a custom GPT model for natural language processing on California Driver's Handbook and created a chatbot to answer user queries.

URL Shortener Prototype

- Built an user-friendly and responsive React application that allows users to easily create shortened URLs and manage them. Developed the backend using Java spring boot framework.
- Secured the REST API endpoints using JWT tokens, OAuth2 Authentication and Spring security and deployed the application on AWS using Docker images.

Simulation of AHA Ideas

- Designed & developed a 3-tier microservices web application enabling features like creating, voting, commenting & searching on 100s of exciting new ideas.
- Built a CI/CD pipeline using Jenkins and deployed the microservices on AWS EC2 using Docker, load balancers and auto-scaling groups.

FhAirlines (Airline Web Application)

- Pioneered a scalable web application to allow users to search and book flights and filter them through preferences.
- Optimized the application for low latency performance by using Redis Cache reducing response time by 40% and load on the relational database by 30%.
- Deployed on AWS EC2 using auto-scaling elastic load balancers to respond to 10000 queries/sec & ensured high availability.

Attendance System using Face Recognition

- Engineered a multi-tiered facial attendance web application using deep learning that was able to efficiently mimic all the features of the manual attendance system achieving a model with 80% accuracy.
- Leveraged dlib library of python to include a face recognition module and built the backend using Django.

EDUCATION

Master of Science, Software Engineering

San Jose State University

Aug 2021 - May 2023

GPA: 3.82

Bachelor of Engineering, Computer Engineering

Univeristy of Mumbai

Aug 2017 - Jun 2021

GPA: 7.94/10

LEADERSHIPS & OTHER AFFILIATIONS

Computer Engineering Department (Instructional Student Assistant) SJSU

Jan 2022 - May 2022

- Provided academic support to students and assisted professors in teaching duties.
- Graded assignments and exams, led discussion sections, and provided individualized feedback to over 90+ students, while developing strong communication, organizational, and time-management skills.