Dharma Acha

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EDUCATION

State University of New York at Buffalo — Aug 2023 - Dec 2024, USA
Master of Science in Computer Science and Engineering
Courses: Machine Learning, Deep Learning, LLM, Computer Vision, NLP, Algorithms Analysis and Design

Jawaharlal Nehru Technological University — Aug 2017 - May 2021
Bachelor of Electrical and Electronics Engineering
Courses: Python, Data Structures, C Language — India

SKILLS

Programming Languages: HTML 5, CSS 3, JavaScript, TypeScript, C, C++, Python, R
Methodologies, DevOps & Cloud Platforms: Agile Development, CI/CD, Microsoft Azure, SaaS
Tools: Git, Postman, Sass, Android studio, Visual Studio, Anaconda, Google Colab, JSON, Docker, NPM
Libraries: AJAX, Pandas, PyTorch, TensorFlow, NumPy, Jest, jQuery, Mongoose, Bootstrap, Matplotlib, Seaborn, Scikit-Learn
Frameworks & Databases: React JS, Redux, Node JS, Express JS, Streamlit, FAST API, GraphQL MongoDB, MySQL, PostgreSQL

PROFESSIONAL EXPERIENCE

Cognizant Technology Solutions Corp - — Nov 2021 - Aug 2023
Full Stack Developer — India

Frontend | React JS, Express JS, Redux, Bootstrap, Web Development, Material UI
- Fast-tracked delivery of 2 critical projects for WALGREEN client, owned frontend codebase, employing **React**, **Tailwind**, and **Ant Design** to achieve a 50% improvement in hot reloading, reducing bounce rates by 30% and a 40% reduction in customer support queries.
- Transformed codebase efficiency by crafting reusable **React** components, elevating code reusability by 60%. Developed **TypeScript** functions, followed **agile methodologies** with advanced conditional logic, deployed across multiple modules.
- Optimized component reusability with the implementation of Higher-Order components, realizing a 45% efficiency gain. Leveraged **Redux store**, leading to a 60% increase in application performance and overall user experience.
- Collaborated with **cross-functional team** to design Defect Tracking System (DTS), enhancing system usability, maintainability, and reliability. Achieved a significant improvement of 20% in the accuracy of defect estimation per project.

Backend | MongoDB, Mongoose, Microservices
- Key contributor to backend enhancements by integrating the Defect Tracking System application with **MongoDB**, optimized data flow by 40%. This integration significantly enhanced system efficiency and reliability, reducing downtime by 15%.
- Optimized **Microservices** for the **Product Inventory Management System**, achieving a 25% reduction in **REST API** latency and a substantial increase in throughput by implementing efficient indexing and caching strategies,
- Developed a **Node.js** backend system, enhancing **JSON** submission through **RESTful APIs**, efficient endpoints, and **GraphQL** integration for seamless template creation and rendering in our Marketplace.

Testing | Jest, Unit Testing, CI/CD, Test Driven Development
- Enhanced team confidence and deployment capabilities by implementing advanced testing methodologies. Developed extensive test suites using **Jest** and **Unit test**, achieving over 80% code coverage and integrating with **CI/CD pipeline**.
- Spearheaded efforts to enhance software reliability by introducing **end-to-end** automation tests. Significantly improved the testing process, leading to a 20% reduction in deployment errors and a more reliable software delivery timeline.

Intern- — Jun 2021 - Nov 2021
Online Store Web Application | HTML 5, CSS 3, JavaScript, ES6, Bootstrap — India
- Developed a dynamic E-Commerce **Web Application** with **responsive design**, resulting in 30% improvement in user experience metrics and achieved a superior level of user-friendly online shopping experience contributing to a 25% increase in customer satisfaction ratings.

PROJECTS

Employability Classification of Job Applicants 🔗 | Pandas, Scikit-Learn, Streamlit, Matplotlib
- Deployed a cutting-edge web application, employing predictive and classification machine learning models using **logistic regression**, **decision trees**, and **random forests** to revolutionize the hiring process.
- Achieved an impressive accuracy rate of 92% in predicting candidate suitability, contributing to a competitive edge in the job market and enhancing overall organizational productivity.

Student Finance Database 🔗 | PostgreSQL, Python
- Designed and implemented a resilient Student Finance Database, centralizing and organizing financial data for 10,000 students, ensuring efficient data collection, secure storage, and optimized retrieval mechanisms.
- Enhanced database performance through **indexing**, **query optimization**, and **data partitioning**, reducing query response times by 40% and enhancing system scalability by 50%.

LEADERSHIP/ACTIVITIES

- **EEE Graduate Organization Student Coordinator:** Representing 120 EEE students and facilitating inter-departmental collaborations at Jawaharlal Nehru Technological University.
- Led a series of **IEEE** workshops and seminars on emerging technologies such as **IoT** and **AI**, increasing member engagement by 40%.