

Dharma Acha

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EDUCATION

State University of New York at Buffalo

Master of Science in Computer Science and Engineering

Courses: Machine Learning, Deep Learning, Data structures, LLM, Computer Vision, NLP, Algorithms Analysis and Design

Jawaharlal Nehru Technological University

Bachelor of Electrical and Electronics Engineering

Aug 2023 - Dec 2024

USA

Aug 2017 - May 2021

India

SKILLS

Programming Languages: HTML 5, CSS 3, JavaScript, TypeScript, C, C++, Python, R

Tools: Git, Postman, Sass, Android studio, Visual Studio, Anaconda, Google Colab, JSON, NPM

Methodologies, DevOps & Cloud Platforms: Agile Development, CI/CD, Microsoft Azure, Docker, AWS, SaaS

Frameworks & Databases: React JS, Redux, Node JS, Express JS, Streamlit, FAST API, GraphQL MongoDB, MySQL, PostgreSQL

Libraries: AJAX, Pandas, PyTorch, TensorFlow, Keras, NumPy, Jest, jQuery, Mongoose, Bootstrap, Matplotlib, Seaborn, Scikit-Learn

PROFESSIONAL EXPERIENCE

Cognizant Technology Solutions Corp -

Full Stack Developer

Nov 2021 - Aug 2023

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, utilizing predictive and classification machine learning models using **logistic regression**, **decision trees**, and **random forests** and achieved an impressive accuracy rate of 92% in predicting candidate suitability.

LSTM Model for Sentiment Analysis  | PyTorch, TensorFlow, Keras

- Refined **LSTM** models to analyze **Twitter US Airline** Sentiment dataset, elevating test accuracy from 65% to 80% by incorporating **bidirectional layers**, which significantly improved model stability and prediction consistency over **1000 epochs**.

Student Finance Database  | PostgreSQL, Python

- Designed and implemented a resilient Student Finance Database for 10,000 students, enhancing performance through **indexing**, **query optimization**, and **data partitioning**, reducing query response time by 40% and improving 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%.