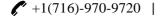
# Dharma Acha









### **EDUCATION**

State University of New York at Buffalo

Master of Science in Computer Science and Engineering

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 (ES6+), TypeScript, C, Python, R, PHP

Databases: MongoDB, MySQL, PostgreSQL, Redis, Kafka

DevOps & Cloud Platforms: CI/CD, Jenkins, Microsoft Azure, GCP, Docker, AWS, SaaS Frameworks: React JS, Angular JS, Next JS, Redux, Node JS, Express JS, GraphQL

Tools & Libraries: Git, Postman, Sass, JIRA, Linux, JSON, NPM, Webpack, Babel, AJAX, Jest, ¡Query, Bootstrap

### PROFESSIONAL EXPERIENCE

Mar 2021 - Aug 2023 Cognizant

Software Engineer

- Fast-tracked delivery of 2 critical projects for WALGREEN client, owned frontend codebase, employing **React**, **JavaScript**, and **Vite**, reducing bounce rates by 30% and a 40% reduction in customer support queries.
- Designed high-performance backend solutions with Node JS and Express JS, optimizing system scalability to handle a 50% surge in concurrent users while securing API endpoints with JWT alongside OAuth authentication, strengthening data protection by 35%.
- Leveraged Next JS and GraphOL to develop APIs for both internal and external use at Walgreens, reducing the time to deploy new front-end features by 4%. Utilized **Redis** for optimized caching and data retrieval, boosting overall system performance.
- Migrated legacy on-premises infrastructure to a cloud-native architecture on AWS, utilizing services like EC2, S3, and RDS, resulting in a 35% reduction in infrastructure costs and achieving 99.99% uptime.
- Implemented CI/CD pipelines for a dockerized Shutdown and Maintenance Scheduler deployed on Kubernetes, integrating Kafka for real-time event streaming, driving a 50% improvement in **ERP system** efficiency and a 20% enhancement in resource utilization through optimized horizontal autoscaling.
- 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.
- Enhanced team confidence and deployment capabilities in Marketplace by implementing advanced testing methodologies. Developed extensive test suites using **Jest** and **Unit test**, achieving over 90% code coverage.
- 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.

Software Engineer Intern

Aug 2020 - Feb 2021

- 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%.
- Led the transition from manual setup and resource management to adopting Infrastructure as Code (IaC) using AWS CDK and ECS, resulting in a 30% reduction in provisioning time.
- Transformed codebase efficiency by crafting reusable **React** components, elevating code reusability by 60%. Developed **TypeScript** functions, followed agile methodologies with 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 25% reduction in state-related bugs.

#### **PROJECTS**

CodeShield - BugInsight Platform & | Angular JS, Node JS, Express JS, MongoDB

• Bug management system that improved defect estimation accuracy by 30% and streamlined defect documentation, while enabling scalable project management for teams of up to 100 employees using technologies like MongoDB, Node JS and Angular JS.

HireFlow - Employability Classification Tool & | Pandas, Scikit-Learn, React JS, Node JS

• Deployed a cutting-edge web application, utilizing React.js, Node.js and classification machine learning models such as logistic regression, decision trees, and random forests and achieved an impressive accuracy rate of 92% in predicting candidate suitability.

**Student Finance Database** & | PostgreSQL, Python

• Architected 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%.