Dharma Acha

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EDUCATION

State University of New York at Buffalo	**Aug 2023 - Dec 2024**
Master of Science in Computer Science and Engineering	**USA**
Jawaharlal Nehru Technological University	**Aug 2017 - May 2021**
Bachelor of Electrical and Electronics Engineering	**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, jQuery, Bootstrap

PROFESSIONAL EXPERIENCE

Cognizant   **Mar 2021 - Aug 2023**
Software Engineer   **India**

- 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 **OAuth**, strengthening data protection by 35%
- Leveraged **Next JS** and **GraphQL** 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
- 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%.