

Nikhil Teja Malyala

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Education

Stony Brook University, SUNY

Aug 2024 - May 2025

Master of Science in Computer Science

Indian Institute of Technology (IIT), Roorkee

July 2018 - May 2022

Bachelor of Technology in Electrical Engineering

Key Courses: Data structures, Algorithms, Operating Systems, Distributed Systems, Computer Architecture, Databases

Technical Skills

Programming & Scripting: Java, C++, Python, JavaScript, Solidity, Shell Scripting, Bash

Frameworks & Technologies: Spring, Spring Boot, Kafka, Docker, Kubernetes, Node.js, React, HTML, CSS

Cloud & Datastores: AWS, Microsoft Azure, MongoDB, MySQL, Apache Solr, Redis, Aerospike

Developer Tools & Others: Jenkins, Git, GitHub, SQL, Maven, Gradle, Linux, Agile/Scrum, Ethereum

Experience

Software Development Engineer | Myntra (Subsidiary of Walmart) 

Jun 2022 – Jul 2024

System Optimization & Scalability

- Independently upgraded central discounts service to Spring Boot 3.1 and Java 17 within critical timelines, achieving a 58% decrease in startup time, 20% reduction in latency, and a 40% enhancement in scalability.
- Revamped datastore architecture from Redis and MongoDB to Aerospike, reducing read latency by 90%, core usage by 40%, and managing **7M RPM** with 47% fewer pods. Achieved **p99 latency under 50ms**.
- Debugged and addressed critical issues in legacy E2E automation tests, integrating with a **Jenkins CI/CD pipeline** via webhook on pull requests in Bitbucket, improving maintainability and code correctness.

Revenue Growth & Monetization

- Designed and deployed a search-driven ad-serving solution utilizing Solr, facilitating cross-brand keyword targeting and enhancing ad fill rates for branded queries by 14%, generating an additional 8.5% revenue.
- Collaborated with the Flipkart team to integrate their rule engine to validate pricing parameters in the new automated repricing flow. Eliminated manual errors, reduced GST overage by 99%, and saved \$2.7M annually.
- Developed approval and pricing flows for loyalty point discounts, implementing batch persistence and Kafka processing to handle high RPM - **boosting conversion rates by 7.2% and RPU by 5.9%**.

Web Development Intern | Hello Study Global 

May 2021 – Aug 2021

Course Analytics Dashboard


- Built a course analytics dashboard using React and Node.js, integrating Chart.js for visualizing user progress and engagement metrics, enabling data-driven decision-making for instructors.
- Optimized user-facing side performance with **lazy loading**, asset compression, and **server-side rendering**, improving SEO with meta tags. Decreased bounce rates by 30% and boosted **click-through rates by 20%**.

Projects

Automated Redistricting System (ARS) | PoliTech Research Group, SBU 

Jan 2025 – Present

- Contributing to ongoing **research in political informatics** by building the backend of the Automated Redistricting System (ARS) using Java and Spring Boot, enabling user-defined congressional districting.
- Developing scalable APIs to manage geographic, demographic, and election data, supporting advanced algorithms for graph partitioning and compactness.

Blockchain-Based Energy Trading System Under Prof. Deep Kiran 

Jul 2021 – May 2022

- Deployed 20+ secure smart contracts using Truffle and Solidity, ensuring accurate transaction validation, streamlined data flow across **Ethereum nodes**, and scalability for 30+ concurrent stakeholders.
- Improved settlement time from 2–3 days to 30 minutes, boosting market participation by up to 25% and enhancing decentralization, transparency, and data security with **blockchain technology**.

Cloud-Based Secure File Sharing Platform at GRIP Program 

Aug 2021 - Sep 2021

- Built a serverless file-sharing system using **AWS Lambda**, **API Gateway**, and **S3**, enabling file uploads and scalable storage with pre-signed URLs for controlled access.
- Integrated **AWS Cognito** for user authentication and **AWS KMS** for encryption, ensuring secure file storage and access in a fully cloud-based environment.

Mentorship

Technical Mentor | 10x Academy 

Dec 2022 – Mar 2022

- Mentored 100+ students by designing algorithm-focused assignments and offering personalized feedback, enhancing their coding skills.
- Strengthened students' expertise in Data Structures, Algorithms, and Java, with 70% of participants achieving higher performance in coding contests and hackathons within a few months.