LAXMIDEEPAK NELAPATLA

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PROFESSIONAL SUMMARY

Graduate student in Computer Science at UTA with over 2 years of experience developing scalable full-stack applications using React, Node.js, and AWS. Proficient in RESTful API design, cloud integration, and database optimization.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C, SQL
Web/Frameworks: React.js, Node.js, Express.js, PHP, HTML/CSS
Databases: MySQL, MongoDB, PostgreSQL
ML/DS: TensorFlow, Keras, NumPy, Pandas, Scikit-learn
DevOps/Cloud: AWS (S3, DNS), Docker, GitHub Actions, CI/CD Pipelines, API Gateway, Kubernetes
Tools: Git, XAMPP, Gradio

PROFESSIONAL EXPERIENCE

UTA Honors College | Arlington, TX   **Jan 2025-May 2025**
Graduate Research Assistant
- **Revamped** the Honors Department website, raising overall accessibility and front-end performance by ≈ **80%** through targeted optimization with **HTML5, CSS3, JavaScrip**t and image-compression techniques.
- **Built & maintained** department sub-sites in WordPress and Sitecore, delivering fully responsive, user-centered layouts that served 1K + monthly visitors without downtime.
- Achieved **100% WCAG 2.1 + DOJ** compliance by leading automated and manual remediation (axe-core, Lighthouse).

Cognizant | Hyderabad, India   **Feb 2023 – Aug 2023**
Java Full-Stack Intern
- **Developed** a demo **Audit Management System** with a responsive **Angular 12** front end and **Spring Boot** microservices (REST), digitizing manual audit workflows and enabling real-time status tracking.
- **Implemented JWT** authentication, **RBAC**, and bundle-size optimizations (lazy loading, asset minification), boosting **Google PageSpeed Insights** scores to **90 +** and blocking **100%** of unauthorized requests in QA.
- **Containerized & deployed** services via **Docker → AWS ECS (Fargate)** with **CodeBuild / CodePipeline** CI/CD, cutting manual release effort by ≈ **50%** and supporting zero-downtime, auto-scaling updates.

Srinidhi Technologies Inc | Telangana, India   **Jul 2022 – Dec 2023**
Full Stack Developer Intern
- **Engineered** a responsive property-listing platform with **React**, **Node.js**, and **Express**, improving content-update efficiency by **40%** and serving **500+** active listings.
- **Designed & optimized RESTful APIs** and **MongoDB** schemas (indexing, aggregation tuning), accelerating query performance by ≈ **30%** for high-traffic endpoints.
- Integrated **AWS S3 + CloudFront** with custom **DNS**, delivering global content in **< 150 ms** median latency.

ACADEMIC PROJECTS

Conference Management System
Tech Stack: React, PHP, MySQL, PostgreSQL, RESTful APIs, HTML/CSS, JavaScript
- Developed a full-stack conference management system using **React**, **PHP**, and **RESTful APIs** with modules for authentication, scheduling, and registration.
- Integrated and optimized **MySQL/PostgreSQL** databases with secure authentication and efficient data handling.
- Used **Docker** for containerized development and deployment, enabling consistent environments and simplified builds.
- Followed **RESTful API** best practices with versioning, schema validation, and modular endpoint design.

University Library Management System
Tech Stack: MySQL, PHP, HTML/CSS, JavaScript, XAMPP, SQL Analytics, Triggers
- Developed a full-stack library system using **MySQL** and **PHP** to manage book circulation, member data, and transaction tracking.
- Built real-time analytics dashboards using **SQL joins and aggregates** to uncover weekly borrowing patterns by subject and author.
- Designed interactive **JavaScript**-based user interfaces for borrowing, returning, and renewing, while **MySQL triggers** automated alerts—reducing admin workload by **60%**.

EDUCATION

University of Texas at Arlington | Arlington, Texas   **May 2025**
Master of Science in Computer Science
Jawaharlal Nehru Technological University | Hyderabad, India   **May 2023**
Bachelor of Technology in Electronics and Communication Engineering