

MADHU YAMINI NALLAMOTHU

FRONTEND DEVELOPER

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 Illinois

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PROFESSIONAL OVERVIEW

Motivated and result-driven Front-End Developer known for quickly adapting to new technologies and delivering scalable, user-centric web applications. Demonstrates strong problem-solving skills and a proactive approach to achieving project goals efficiently. Committed to continuous learning and innovation to enhance product quality and user experience.

WORK EXPERIENCE

Eastern Illinois University

Graduate Assistant | Sep 2024 – Dec 2025 | Illinois, USA

- **Developed and maintained web applications** for university departments including HR, Benefits and Administration, streamlining daily operations, improving service accessibility and **enabling faster processing applications**.
- **Digitized paper-based workflows** into user-friendly online platforms, cutting **turnaround time from 3–4 days to under 24 hours** by eliminating back-and-forth between departments, **reducing paper costs**, resulting in a **70%+ reduction in processing time** and improved data accuracy.
- **Built secure and scalable solutions** using **HTML, CSS, JavaScript, jQuery, PHP, MySQL, and Oracle**, contributing to the university's digital transformation initiatives.

Tata Consultancy Services

Systems Engineer | Feb 2020 - Feb 2024 | Chennai, India

- Served as a Senior Front-End Developer for large-scale retail and financial platforms, building high-performance UIs using **React, Next.js, Redux Toolkit, React Router, Tailwind, and SCSS**, improving user task completion speed by **25%**.
- Developed **20+ reusable, production-grade components** and optimized rendering with Hooks/RTK, reducing page load time by **1.2 seconds** and improving Lighthouse performance scores by **30–40 points**.
- Translated Figma designs into pixel-perfect, accessible interfaces meeting WCAG standards, reducing UI-related QA defects to **near zero** and increasing design accuracy to **98%+**.
- Integrated **RESTful and GraphQL style APIs**, implemented error-boundaries, **caching, and lazy-loading strategies**, reducing API-related UI failures **by 35%** and boosting overall **application stability**.
- Built automated test suites with **Jest, React Testing Library, and Vitest**, achieving **85%+ coverage** and improving release confidence **in CI/CD pipelines**.

HCL Technologies

Application Developer | March 2019 - Jan 2020 | Chennai, India

- **Designed and improved applications** for **Vision Tek POS devices**, enabling reliable banking services in rural areas. Developed, and maintained **applications in C and C++ on Linux systems**.
- Improved **performance and stability** through **code optimization** and collaborative reviews, reducing transaction errors by ~20% and minimizing system crashes under high transaction loads of 500+ transactions per hour.

SKILLS

Languages: HTML5, CSS3, JavaScript (ES6+), TypeScript, Python, C, C++

Styling: Sass (SCSS), Tailwind CSS, Responsive Design (Flexbox, Grid)

Frameworks/Libraries: React.js, Next.js

UI Libraries: Material UI (MUI), Ant Design

State Management: Redux Toolkit, Context API

Build & Tooling: npm, Vite, Webpack

APIs: REST APIs, Graph QL, Axios, Fetch

Version Control: Git, GitHub

Testing: Jest, React Testing Library, Vitest

Deployment: Netlify, Vercel, Git hub actions

Cloud: AWS Services

Additional: Agile/Scrum, Jira

EDUCATION

Master's degree

Eastern Illinois University

Aug 2024 – Dec 2025

CGPA: 4.0/4.0

Bachelor's degree

Acharya Nagarjuna University

2014 – 2018

CGPA: 9.3/10

ACHIEVEMENTS

Prathibha Award

An award for academic excellence

Acharya Nagarjuna University

2018