

HARSHITHA KARNATI

Charlotte, NC - 28277

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Education

North Carolina A&T State University

Jan. 2023 - May 2024

Master of Science in Information Technology - 3.85/4.0

Greensboro, NC

VNR Vignana Jyothi Institute of Engineering and Technology

Aug. 2017 - July 2021

Master of Science in Information Technology - 9.25/10.0

Hyderabad, India

Technical Skills

Programming Languages: Python, Java, Javascript.

Web Technologies/Frameworks: HTML, CSS, Bootstrap, Tailwind, React.js, Next.js, Vue.js, Node.js, Express.js

Databases and Tools: MySQL, MongoDB, Docker, Kubernetes.

DataScience: Machine Learning, Deep Learning and Neural Networks.

Experience

North Carolina A&T State University

May 2023 – May 2024

Graduate Research Assistant

Greensboro, NC

- Conducted research on 'Preserving Medical Data with Renyi Differential Privacy,' focusing on Privacy-Preserving Techniques for medical data.
- Demonstrated that Renyi Differential Privacy offers significantly improved privacy without compromises in accuracy.
- Submitted a research paper to the AIIOT 2024 Conference, currently under review. Presented findings at academic conferences, advocating for advanced Privacy-Preserving Techniques in the handling of sensitive medical information.

Intense Technologies

Jan. 2021 – Dec. 2022

Junior Web Developer

Hyderabad, India

- Developed and maintained web applications using HTML, CSS, JavaScript, React, Next.js, and TypeScript, ensuring responsive and interactive user interfaces.
- Created and managed backend services, developing over 50 RESTful APIs with functionalities such as user authentication, data management, and third-party integrations using ExpressJS, Node.js, Flask, MongoDB, and AWS.
- Collaborated with cross-functional teams, including designers, backend developers, and QA engineers, to deliver high-quality products on schedule.
- Optimized application performance by refactoring code and database queries, resulting in a 20% improvement in response times.
- Tech Stack: Frontend - HTML, CSS, JavaScript, React, Next.js, TypeScript; Backend - ExpressJS, Node.js, Flask; Database - MongoDB; Cloud Services - AWS

Projects

Social Networking Application | *React Native, Firebase, and Node.js*

- Designed a social networking app, integrating core features such as image uploads, real-time notifications, user authentication, and an interactive feed
- Integrated **Firebase** for backend services, achieving scalable and real-time data synchronization across the application.

E-Commerce Platform | *Next.js, Redux, Stripe API, MongoDB*

- Designed and developed a robust e-commerce platform. Engineered essential functionalities such as **product listings**, **shopping cart**, **secure checkout**, and **payment integration** to enhance user experience and streamline the purchasing process.
- Optimized the application for high performance and responsiveness, significantly improving **user experience** and boosting **conversion rates**.

Responsive Portfolio | *React, Framer Motion*

- Created a modern, responsive portfolio website with Framer Motion animations to enhance visual appeal and interactivity.
- Implemented performance optimization techniques, ensuring quick load times and smooth navigation.

Leadership / Extracurricular

President, State Street Foundation : Started and led the State Street Foundation, a student organization dedicated to promoting education, community service, and technical skills development among peers.