TANUSHA NANDAM

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EDUCATION

MS, Computer Science, UT Dallas | *GPA 4.0*   May 2025
BS, Computer Science, CVR College of Engineering, JNTU | *GPA 3.9*   May 2022

WORK EXPERIENCE

Software Developer at University of Texas at Dallas   Sep 2023 – Jul 2024
- Improved content delivery for a government health portal by integrating APIs with Node.js and Express.js, leveraging NoSQL databases to enhance data accuracy by 25%.
- Enhanced user engagement and streamlined content moderation by developing a photo-sharing feature using ReactJS, Material-UI, and AWS S3, which reduced approval times by 30%.
- Increased platform reliability by implementing CI/CD with GitLab CI/CD and Docker, reducing deployment times by 40%.
  *Tech stack: **ReactJS, Node.js, Express.js, NoSQL, AWS S3, GitLab CI/CD, Docker, REST APIs***

Associate Software Developer at OPENTEXT   Aug 2021 – Aug 2023
- Enhanced document management capabilities in distributed systems by designing Angular-based dashboards, enabling seamless document sharing and access across cloud storage solutions, resulting in a 25% improvement in content accuracy and a 50% increase in large file upload efficiency.
- Improved application accessibility by redesigning key components for ADA compliance, adhering to WCAG 2.0 standards, and achieving inclusive usability across diverse user groups.
- Developed and maintained RESTful APIs using Express.js, enabling efficient production of XML and JSON files, thereby enhancing data integration flexibility for enterprise clients by 90%.
- Integrated CI/CD pipelines with Jenkins to streamline testing and deployment, reducing manual intervention by 60% and increasing overall system reliability.
  *Tech stack: **Angular, Java Script, Jenkins, SQL, Express.js, AWS S3, PostgreSQL, Postman API, Apache Tomcat***

Software Developer Intern at OPENTEXT   Apr 2021 – Jul 2021
- Developed a cloud-based analytics platform using Angular, enabling tracking for user engagement and performance metrics.
- Implemented an automated accessibility testing pipeline for ADA compliance using Selenium, reducing manual efforts by 40%.
- Designed ADA-compliant UI components following WCAG 2.0 guidelines, improving usability for disabled users..
  *Tech stack: **Angular, Jenkins, ADA, Selenium***

Software Developer Intern at EDWISELY   May 2020 – Aug 2020
- Developed a React-based analytics platform for tracking student performance, enabling educators to visualize real-time metrics.
- Implemented mobile-friendly designs to increase user adoption on tablets and smartphones, improving accessibility by 35%.
- Built interactive charts and dashboards using React libraries, enabling dynamic data visualization..
  *Tech stack: **React, Node.js, Jenkins***

PROJECTS

Advanced Phishing Detection with Chrome Extension and ML, *UTD*   Aug 2023 – Dec 2023
- Enhanced phishing website detection by developing a Chrome extension that uses machine learning algorithms, including random forest classifier, to analyze URL characteristics and classify them as safe or malicious, ensuring rapid detection and privacy.
  *Tech stack: **JavaScript, Chrome APIs, Random Forest Classifier, Webpack, Git, Postman***

Book Rack - Library Management, *CVR College of Engineering*   Jan 2022 – Apr 2022
- Designed and implemented REST APIs for managing book catalogues and user accounts. Built a user-friendly frontend interface for browsing and trading books using React.js. Integrated authentication with JWT to secure user interactions and data handling.
  *Tech stack: **JavaScript, Node.js, MongoDB, React.js, JWT, Git, Postman.***

TECHNICAL SKILLS

Programming Languages: C, Java, Python, JavaScript, Angular, React.js, PHP, HTML, CSS, SQL
Platforms: AWS Cloud Services, Docker, MongoDB, Rest API, Postman API, Apache Tomcat, Jenkins, Jira Atlassian, IIS Server, Jupyter Notebook, Git, Linux, Perforce, TeamCity, PostgreSQL, Visual Studio Code, Databricks
Frameworks: TensorFlow, NumPy, Pandas, Matplotlib, Flask, MLflow, PySpark, Hadoop, Hive, Kafka, Hbase, Django, Spring Boot.

CERTIFICATIONS & ACHIEVEMENTS

- AWS Cloud practitioner Foundational and AWS Developer Associate.
- Worked as a Student Assistant, Computer Science Grader, and Student Outreach Instructor.