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

TECHNICAL SKILLS

Programming Languages: C, Java, Python, JavaScript, PHP, SQL, HTML, CSS
Front-End: React.js, Material-UI, Bootstrap, HTML, CSS, JavaScript
Back-End: Node.js, Express.js, Spring Boot, Flask, Web-Sockets
Cloud & DevOps: AWS (S3, DynamoDB, EC2), Docker, GitLab CI/CD, TeamCity, Jenkins
Databases: MongoDB, PostgreSQL, DynamoDB, SQL Server, Hive, HBase
Data Science & ML: TensorFlow, Keras, NumPy, Pandas, Matplotlib, Seaborn, PySpark, MLflow, DVC, Scikit, Hadoop, Kafka, Spark
Other Tools: Selenium, Postman, JIRA Atlassian, Perforce, Apache Tomcat, IIS Server, Jupyter Notebook, Visual Studio Code

WORK EXPERIENCE

Software Developer at University of Texas at Dallas May 2024 – Nov 2024

- Built a responsive web app with user authentication, salted password registration, @mentions in comments, photo uploads, bookmarking, "like" system, favorite lists, and activity feed using **ReactJS**, **Node.js**, **Express.js**, and **MongoDB**. Utilized **AWS S3** for photo storage and **Docker** for containerization.
- Conducted weekly design optimization sessions, enhancing performance of a photo-sharing app by 25%, responsiveness by 30%, and UX by 35%, while ensuring scalability and full **ADA compliance with WCAG 2.0 Level A standards**. Incorporated **GitLab CI/CD** for continuous integration and deployment to streamline development workflows
- Achieved timely delivery of a modular architecture under tight deadlines with strong collaboration and technical proficiency.

Associate Software Developer at OPENTEXT Apr 2022 – July 2023

- Enhanced document management in a distributed system for sharing and accessing documents across remote locations by integrating various cloud storage solutions like **AWS S3**, leading to a 25% improvement in content accuracy and availability, and a 50% increase in large file upload efficiency. Used **SQL** and **PostgreSQL** for storing document references and metadata.
- Improved document retrieval performance by 90% in the Archive Link Filter application by implementing document streaming, improving handling of SAP document versions between OpenText Archive Server and Content Server using **Java**, **Spring Boot**.
- Increased document conversion efficiency by 30% by implementing an operation queue for delayed conversions and optimizing the scheduling algorithm for various MIME types.
- Implemented **RESTful web services** using **Jersey** for **JAX-RS**, enabling production of XML and JSON files for various tasks, Utilized **Postman API** for testing and deployed on **Apache Tomcat** for scalability and performance.

Software Developer Intern at OPENTEXT Jan 2022 – Apr 2022

- Worked on the **Cloud Service Intelligence (CSI)** product for the Cloud Access Security Broker market, integrating security plugins for **Chrome/Firefox** using the **CSI Collection Plugin**.
- Collected data for Cloud Application Functions, analyzed URLs, and wrote rules using **CSI Filter** and **Webroot** to enhance security.
- Developed automated scripts to perform user functions using **Selenium** with **Python**, improving testing automation efficiency.

Software Developer at EDWISELY May 2021 – Jan 2022

- Developed an analytics platform for tracking student performance using **ReactJS**, **MUI** for UI components, **JS** for interactivity.
- Implemented mobile-friendly designs with **HTML**, **CSS**, and **JavaScript**, improving accessibility by 35%.
- Built interactive charts and dashboards with **React** libraries, utilizing **AWS** for cloud infrastructure and **DynamoDB** for scalable NoSQL database solutions.

PROJECTS

Advanced Phishing Detection with Chrome Extension and ML, *CVR* Sep 2022 – Feb 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***

Medical Image Classification using Deep Learning and MLflow, *Personal* - GitLink Sep 2023 – Jan 2024

- Developed a deep learning solution for medical image classification using VGG16, Flask, MLflow, and DVC, achieving 95% accuracy and ensuring robust data management and reproducibility.
  Tech stack: ***TensorFlow/Keras, Flask, MLflow, DVC, Docker, Git, AWS S3, Python, Matplotlib, Seaborn***

Photo Sharing Application, *UTD* - GitLink Aug 2024 – Nov 2024

- Designed and developed a scalable photo-sharing platform incorporating advanced features such as secure session-based authentication, real-time updates with WebSockets/polling, dynamic user interactions and customizable photo visibility.
  Tech stack: ***ReactJS, Node.js, MongoDB, AWS S3, GitLab CI/CD, Docker, REST APIs***

CERTIFICATIONS & ACHIEVEMENTS

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