

# 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, TypeScript, PHP, SQL, HTML, CSS

**Front-End:** Angular(v2-v19), RxJS, NgRx (State Management), Angular Material, Tailwind CSS, SCSS, React.js, Material-UI, Bootstrap

**Back-End:** Node.js, Express.js, Spring Boot, JPA, Spring AOP, Flask, Web-Sockets, Microservices, Django

**Cloud & DevOps:** AWS (S3, DynamoDB, EC2), Docker, Git, 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, Jasmine, Karma, JIRA, Perforce, Apache Tomcat, IIS Server, Jupyter Notebook, Visual Studio Code, IntelliJ, MSSQL

## WORK EXPERIENCE

**Software Developer** at University of Texas at Dallas

May 2024 – Nov 2024

- Developed modular photo-sharing platform using **Angular 17**, **NgRx** for state handling, custom libraries for scalable architecture.
- Integrated backend microservices built with Spring Boot (Java 17), connected to content management tools for dynamic photo and metadata delivery. Enhanced performance through **SSR**, **lazy loading**, and consolidated multilingual content files, reducing load time by 40%.
- Ensured ADA compliance (WCAG 2.0 Level A), implemented responsive design across browsers and devices, and integrated Adobe Analytics for engagement tracking. Achieved 100%-unit test coverage using **Jasmine** and **Karma**. Used **Node.js + Express** for mock server setup and automated CI/CD with **Jenkins**.

**Associate Software Developer** at OPENTEXT

Apr 2022 – July 2023

- Worked extensively on OpenText Content Server to manage and streamline enterprise content workflows, including metadata tagging, access controls, and version management. 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 a modular analytics dashboard using **Angular** with reusable components, reactive forms, and **Angular Material**, enabling real-time visualization of student performance across various metrics.
- Integrated backend services using **Node.js** and **Express** to fetch academic data securely via REST APIs, implementing **route guards** and **lazy-loaded modules** for optimized user experience.
- Created custom pipes, directives, and chart components with **ngx-charts** to support interactive filtering, formatting across devices.

## PROJECTS

**Faculty Hub: Modular Timesheet & Course Management Portal**, UTD

Jan 2025 – May 2025

- Designed and built a modular Angular web app for professors to manage timesheets, course data, documents, and analytics. Included role-based login, calendar-based hour logging, PDF report generation, document uploads with versioning, and visual analytics with filtering. Integrated secure backend services and admin tools for managing users, course assignments.

*Tech stack:* **Angular 17**, **Firebase/JWT Auth**, **Node.js**, **Express.js**, **MongoDB**, **jsPDF**, **ngx-charts**, **Chart.js**, **GitLab**, **Docker**, **Tailwind CSS**

**Search Engine for Musicals**, Personal - [GitLink](#)

Sep 2023 – Jan 2024

- Developed a full-stack (React + Flask interface) domain-specific search engine using Apache Nutch and Solr to crawl and index 140K+ pages, integrated PageRank, HITS, clustering, query expansions for structured retrieval. Delivered real-time, semantically organized search results.

*Tech stack:* **Apache Nutch**, **Apache Solr**, **Python**, **Flask**, **React.js**, **NLTK**, **Scikit-learn**, **NetworkX**

**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**

## CERTIFICATIONS & ACHIEVEMENTS

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