


SUMAN MAJJARI

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 [LinkedIn](#)

 [GitHub](#)

 [LeetCode](#)

 [GeeksForGeeks](#)

Education

Texas Tech University

Aug. 2023 – May 2025

Master's in Computer and Information Sciences, **CGPA - 3.58**

Lubbock, Texas

Experience

Community Dreams Foundation

July 2025 – Present

Software Developer

Orlando, Florida

- Develop and maintain backend applications using **Java (Spring Boot)**, building **RESTful APIs** and integrating with **MySQL** to deliver scalable solutions.
- Enhance application performance and scalability by optimizing **database queries**, implementing efficient data handling, and applying **Java concurrency** features when required.
- Conduct debugging, troubleshooting, and automated testing with **JUnit** while performing peer code reviews to ensure clean, maintainable, and high-quality code.
- Utilize **Git**, **Jenkins**, and **Docker** to support **CI/CD pipelines**, streamline deployments, and collaborate effectively within **Agile** development environments.

Texas Tech University

Jan. 2024 – May 2025

Full Stack Web Developer

Lubbock, Texas

- Designed and implemented scalable **Spring Boot web applications**, delivering dynamic content and portfolio features with optimized performance and responsiveness.
- Developed and integrated **RESTful APIs** with relational databases, ensuring seamless data exchange, efficient content management, and high availability.
- Engineered interactive and responsive **front-end interfaces** using **React.js**, **HTML5**, **CSS3**, and **JavaScript (ES6+)**, enhancing user engagement and navigation.
- Automated **content delivery workflows** and developed **data visualization dashboards**, minimizing manual effort and enabling real-time insights for end users.

IIITDM Kancheepuram University

May 2021 – Jul. 2022

Full Stack Web Developer

Chennai, TamilNadu

- Led a team of 4 in developing web modules for a university portal using PHP to help 150+ employees manage data.
- Used Bootstrap and CSS to create responsive designs for 10 web pages, integrating AJAX for real-time communication.
- Designed RESTful APIs to manage employee data and optimized MySQL connectivity using PHP's MySQLi extension.
- Applied hierarchical role-based access control with inheritance to secure 5 access levels and enable granular permissions.

Projects

BraTS Brain Tumor Segmentation (BraTS2020) | Python, NumPy, TensorFlow

Aug. 2024 - Nov. 2024

- Engineered a modified **DUCKNet architecture** in TensorFlow for brain tumor segmentation on the **BraTS2020 dataset**, achieving an **88.72% Dice Coefficient** on validation data.
- Designed and implemented an **optimized data preprocessing pipeline** to enhance MRI-based diagnosis accuracy and model generalization.
- Conducted model training and fine-tuning on a **40GB NVIDIA A100 GPU**, utilizing NumPy and TensorFlow for efficient large-scale deep learning workflows.

MediaHUB | Node, MongoDB, Express, JavaScript

Jan. 2024 - Apr. 2024

- Developed a web app for exploring digital media using **Express.js** and **Node.js** with responsive design and real-time data through **RESTful APIs**.
- Built an efficient asynchronous comment system with **AJAX** for threading and **file uploads using Multer** middleware.
- Implemented robust secure user authentication with **Passport.js**, enabling personalized ratings and session management.
- Designed a scalable MongoDB database infrastructure with Mongoose to support CRUD operations, deployed on Heroku.

Technical Skills

Programming Languages: Java, Python, C++, C, JavaScript, HTML, CSS, PHP.

Backend Development: Spring Boot, REST, RESTful APIs, Node.js, Express.js, Microservices Architecture.

DSA & Design Principles: Data Structures & Algorithms, OOP, Design Patterns, SOLID Principles.

Tools & Frameworks: Maven, Gradle, JUnit 5, Postman, Git, GitHub, Jenkins, IntelliJ IDEA, VS Code, JIRA.

Databases & Messaging: MySQL, PostgreSQL, MongoDB, SQL, RabbitMQ, Kafka.

DevOps: Linux, Docker, Kubernetes, CI/CD (GitHub Actions, Jenkins).

Others: Agile & Scrum Methodologies, Operating Systems (Linux, Windows, Mac OS).

Awards & Achievements

- Solved 500+ problems on **GeeksforGeeks** and **LeetCode**, ranked 1st at Texas Tech University in GFG Coding Profile.
- Recipient of the **Computer Science Department** and **Graduate School Competitive Scholarships** at Texas Tech University for academic excellence and merit.
- Received a **Certificate of Excellence** in Design and Innovation for my team's exceptional academic project.
- Secured the **Foundation for Excellence (FFE)** scholarship for all four years of my Bachelor's as a top student.