# Vamshi Krishna Boju

vamshikrishnaboju11@gmail.com | +1 (806) 702-9091 | LinkedIn | Github | LeetCode | Porfolio

## Education

**Texas Tech University**, MS in Computer Science, CGPA: 3.92/4.0 Aug 2023 – May 2025

Coursework: Software Enginnering, Algorithms, Web development, computer Networks, Cryptography.

**Vasavi College Of Engineering**, BS in Computer Science, CGPA: 3.8/4.0 Aug 2019 – May 2023

Coursework: Java Programming, DSA, Agile Software, DBMS, Operating system, Automation and Testing.

## Skills

**Languages:** C, Java/J2EE, Python, JavaScript (ES6+), JSX, TypeScript, SQL, Go, Shell Scripting, HTML5, CSS.

**Frameworks:** React, Angular, Docker, Django, ExpressJS, NodeJS.

**Databases:** MySQL, MongoDB, PostgreSQL, Query Optimization, Indexing.

**Tools:** Postman, Git, Figma, AdobeXD,ntelliJ, JuPyter, Eclipse, VSCode, SQLDeveloper, Jenkins,Microservices, Linux.

**Software Development:** Design Patterns, Web services, Amazon AWS, Azure, Agile Methodologies, API Development.

## Professional Experience

**Web Developer**, Texas Tech University – Lubbock, Texas Dec 2023 – Present

- Enhancing the Texas Tech University website using **React.js, Node.js, Express.js and MongoDB,** achieving a **30%** improvement in page load speed and ensuring seamless responsiveness across devices.
- Redesigning and implementing **interactive features** for student and faculty portals, boosting user engagement by **25%** through personalized content and intuitive navigation

**UI Engineer Intern**, Blockfortrust – Hyderabad, India April 2023 – July 2023

- Designed and built responsive web interfaces and reusable components using **React.js, HTML, and CSS,**educing development time for future features by **30%**.
- Collaborated in an **Agile team** to deliver UI updates on schedule in **100%** of sprint cycles and created interactive prototypes with **Figma** to streamline communication with stakeholders.

**Web designer and developer**, Vasavi College Of Enginnering – Hyderabad, India Jan 2021 – Dec 2022

- Spearheaded development of responsive web pages for events such as quizzes, and coding competitions, increasing user participation by **20%** using **HTML, CSS, JavaScript, React.js, and Node.js.**
- Collaborated with teams to enhance **functionality** and design, improving user engagement and experience.

## Projects

**Connecting World** Website

- Developed a MERN stack web app visualizing social connections through graph-based structures, representing users as nodes and relationships as edges, improving data rendering efficiency by **25%.**
- Designed and implemented **12** RESTful endpoints to support features like "**Get in Touch**" and "**People Near You**", increasing user engagement by **30%**.
- Streamlined back-end APIs with **Node.js and MongoDB**, reducing response time by **20%** for complex graph queries.
- Engineered responsive web interfaces using industry-standard tools like **React Hooks, CSS, and JavaScript**.

**TaskMate** Website

- Built a full-stack task manager with a user-friendly interface for **task assignment, tracking, and collaboration.**
- Optimized performance by integrating **trees, stacks, and queues,** reducing task retrieval time by **30%**, organizing tasks hierarchically, and streamlining workflows, backtracking, and real-time notifications for improved responsiveness.
- Delivered **10,000+** lines of improved code with **ReactJS, NodeJS, SQL, and CSS.**

**MovieHub** Website

- Created a web application, Movie Hub, delivering **90%** accurate movie recommendations with a **Content-Based Filtering** model and features like search, genre filters, and watchlists, increasing feature adoption by **25%.**

**Sort Visualizer** Website

- Crafted a Sort Visualizer with **ReactJS and CSS**, enabling real-time comparisons with adjustable speeds.
- Showcased **Bubble Sort , Insertion Sort , Selection Sort, Merge Sort, Heap and Quick Sort**, enhancing algorithm clarity.