

# VISHAL MANCHIKANTI

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## About

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Software Engineer with experience building full-stack, scalable, and responsive web apps using React, Next.js, Node.js, FastAPI, and cloud tools (AWS, GCP). Strong in RESTful APIs, microservices, and CI/CD workflows. Experienced with Docker, GitHub Actions, and containerization, with a focus on performance optimization and modern DevOps practices. My Portfolio - <https://www.vishalmanchikanti.live/>

## Work History

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**Full Stack Developer (Graduate Assistant)** | *Texas Tech University* Oct 2023 - May 2025

- Developed responsive web applications using JavaScript and Python, improving IT operations for 1,000+ users while integrating RESTful APIs and backend services.
- Automated workflows and implemented CI/CD pipelines with GitHub Actions, deploying containerized apps via Docker on AWS EC2/S3 with autoscaling.
- Collaborated on architecture and UX design using Agile, enhancing frontend usability and system performance through load balancing and cost-optimized cloud setups.

**Software Engineer Intern** | *LTI Mindtree* June 2022 - May 2023

- Built full-stack features using React, FastAPI, and PostgreSQL, deploying scalable APIs and improving backend responsiveness by 30%.
- Contributed to multi-cloud deployments (AWS & GCP), using Docker and CI/CD to streamline delivery, version control, and fault-tolerant service rollout.
- Participated in system design and Agile sprints, debugging across the stack and aligning solutions with product and UX best practices.

## Technical Projects

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**Smart TaskFlow – AI-Powered Task Manager** | *React.js, FastAPI, PostgreSQL, OpenAI API, AWS*

- Built a full-stack task management app using React.js, FastAPI, and PostgreSQL, offering smart task suggestions powered by OpenAI API, with features like role-based access and JWT-based authentication.
- Deployed using Docker and hosted on AWS EC2/S3, implementing CI/CD for scalable and secure deployment workflows.
- Outperforms basic to-do apps by integrating AI for personalized insights, boosting user productivity with intelligent task handling and real-time analytics.

**DevConnect – Portfolio & Blogging Platform for Developers** | *Next.js, TypeScript, MongoDB, Firebase Auth, Vercel*

- Developed a community platform using Next.js (TypeScript), Node.js, and MongoDB, where developers can showcase portfolios, publish blogs, and connect via comments.
- Integrated Firebase Auth for secure login, used Tailwind CSS for responsive UI, and deployed on Vercel with serverless architecture.
- Provides a modern, real-time experience with markdown support and theming, surpassing static portfolio sites with social features and developer engagement tools.

**Tic-Tac-Toe - Responsive tic-tac-toe game using React** | *React, HTML, CSS, Vite* | [link](#)

- Built with React and Vite, the project delivers a fully functional, two-player Tic-Tac-Toe game, featuring dynamic board updates and win/draw logic managed through React Hooks and state.
- Utilizes modular components (e.g., Board, Square) for clean UI separation, with CSS and responsive design ensuring the game is visually appealing and adapts well across screen sizes.
- Configured for seamless CI/CD with gh-pages, the app is automatically built and deployed from the dist/ folder, enabling quick updates and public live demos hosted on GitHub Pages.

## Education

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**Texas Tech University** | Masters in Computer Science – GPA: 3.75 Aug 2023 – May 2025

**MVSR College of Engineering** | Bachelors in Computer Science – GPA: 3.33 Aug 2019 – June 2023

## Skills

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- \* **Frontend** : JavaScript (ES6+), HTML5, CSS, TypeScript, React.js, Next.js, Tailwind CSS
- \* **Backend** : Java, Python, Node.js, FastAPI, Django, REST APIs
- \* **Databases and Cloud** : MySQL, PostgreSQL, MongoDB, Redis, AWS EC2, AWS S3, Firebase
- \* **Tools and DevOps** : Git, Docker, Jenkins, CI/CD, GitHub, Vercel
- \* **Methodologies** : Microservices Architecture, Agile Development, Object Oriented programming, SDLC