

VISHAL MANCHIKANTI

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About

Full-stack developer experienced in building scalable web apps using React, Node.js, Python, and Java. Skilled in API integration, cloud deployment (AWS, Docker), and microservices. Seeking software engineering roles to contribute to impactful, high-performing systems.

Education

Texas Tech University | Master's in Computer Science – GPA: 3.727 Aug 2023 – May 2025
MVSR College of Engineering | Bachelor's in Computer Science – GPA: 3.33 Aug 2019 – June 2023

Skills

- **Frontend** : JavaScript (ES6+), HTML5, CSS, TypeScript, React.js, Next.js, Tailwind CSS
- **Backend** : Java, Python, Node.js, Spring Boot, FastAPI, Django, RESTful APIs
- **Databases and Cloud** : MySQL, PostgreSQL, MongoDB, Redis, AWS (EC2, S3), Firebase
- **Tools and DevOps** : Git, Docker, Jenkins, RabbitMQ, Swagger, CI/CD, GitHub, Vercel
- **Methodologies** : Microservices Architecture, Agile Development, OOP, SDLC, Test-Driven Development, Cross-Functional Collaboration

Work History

Full Stack Developer | *Texas Tech University* **Oct 2023 - May 2025**

- Developed and maintained internal applications for IT Help Central using JavaScript, PL/SQL, and Python, enhancing operational efficiency for over 1,000 university users.
- Automated complex workflows with Python and Git, reducing manual tasks by 40% and significantly boosting team productivity.
- Optimized and refactored PL/SQL queries, improving system response times by 25% for key database functions.
- Collaborated with cross-functional teams to reduce process inefficiencies, achieving a 30% drop in manual data processing.

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

- Developed RESTful APIs using Java, Spring Boot, PostgreSQL, and Docker, handling 50K+ daily requests and boosting scalability by 35%.
- Built and maintained backend services ensuring performance and reliability in production.
- Enhanced software quality through comprehensive unit testing with JUnit and Mockito, resulting in a 50% reduction in bugs and improved code reliability.
- Contributed to faster development cycles through hands-on Cloud and DevOps experience.

Projects

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.

HealthBridge – Microservices Healthcare Platform | *Java, Spring Boot, RabbitMQ, Redis, MySQL*

- Engineered a healthcare solution using Java Spring Boot microservices, with services for appointments, authentication, medical records, and doctor availability.
- Leveraged RabbitMQ for asynchronous communication, Redis for high-speed caching, MySQL for structured data, and Jenkins for CI/CD pipelines.
- Designed for high availability and scalability, delivering faster performance and better fault isolation compared to monolithic healthcare systems.