

# VAMSHIDHAR AMUDALA

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## EDUCATION:

### Masters in Computer Science

August 2022 – May 2024

University of North Texas

Denton, Texas

**Coursework:** Algorithms and Data Structures, Information Retrieval, Software Engineering, Software Development for AI, Big Data,

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Data Science, Computer Architecture, Secure E-commerce, Fundamentals of Artificial Intelligence, Usability Testing, and Data Mining.

## WORK EXPERIENCE:

### Student Assistant

June 2023 – May 2024

University of North Texas

Denton, Texas

- Revamped and maintained college websites using React and ES6, resulting in improved performance and functionality.
- Leveraged PostgreSQL for efficient data querying and manipulation, reducing server load by 35% and improving response times in user interfaces by 40%.
- Troubleshoot and resolved 200+ technical issues and support tickets for students and professors, improving platform usability, and user satisfaction, and ensuring smooth system operation.

### Software Engineer

November 2020 – July 2022

Tata Consultancy Services

Chennai, India

- Built a Single Page Application (SPA) for stakeholders across 6000 retail stores, utilizing React.js, Figma, Redux, and UX principles, featuring real-time retail prices and total sales with interactive dashboards, advanced data visualizations, and search functionality.
  - Increased customer base by 20% for a large E-commerce business by developing a multi-user access registration and login system using React, Bootstrap, and OAuth authentication enabling different user roles to access the platform.
  - Developed 25+ reusable UI components using React, Vite, Next.js, Material UI, and integrated RESTful APIs, boosting development speed and reducing project timelines by 20%.
  - Collaborated with other team members to implement and enhance multiple features using Node.js and GraphQL, reducing production errors by 30% through strategic debugging, and bottleneck identification.
  - Utilized unit testing frameworks and implemented automated frameworks like Mocha and Selenium, reducing manual testing efforts by 25%, improving code quality, and ensuring a bug-free user experience.
  - Enhanced CI/CD pipeline efficiency by 10% using Azure DevOps and Jenkins, fostering team collaboration through Azure Repos, Git, and code reviews in an Agile environment.
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## SKILLS:

**Languages:** C, C#, Java, Python, HTML 5, CSS(SASS/LESS), JavaScript, Typescript, SQL.

**Technologies/Frameworks:** React, VueJs, jQuery, PHP, JSP, NodeJS, Flask, ASP .Net, Bootstrap, Tailwind CSS, GSAP, Three.js, JSON, REST, AJAX, GraphQL, MongoDB, Firebase, Next.js, Vite, ES6+, Git, GitHub, Azure Repos, Jenkins, Cypress, Selenium.

**Software /Tools:** Linux, Kali, Eclipse, Visual Studio, Azure Cloud, Figma, JIRA, Confluence, Docker, CI/CD.

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**Soft Skills:** Attention to detail, Leadership, Adaptability, Problem-solving

## PROJECT WORK:

### Apple iPhone 15 Pro Website Clone

September 2024

- Launched a fully responsive, Apple website clone with custom animations, 3D models, scroll triggers, and interactive video sliders.
- Leveraged GSAP for smooth animations and Three.js for interactive 3D content, enhancing UI/UX across all devices.
- React, Vite, GSAP (GreenSock Animation Platform), Three.js, Tailwind CSS.

### Emotion-Based Music App

November 2023

- Pioneered a real-time facial expression analyzer to build a music recommendation system based on user emotions, with a music player and adaptive UI based on emotion detected.
- Created an Emotion Evolution Tracker with a dashboard for visualizing mood changes over time, enhancing user engagement.
- Python, Flask, JavaScript, HTML, CSS, OpenCV, Keras, Machine Learning (Haarcascade).

### Grocery Store Application

October 2023

- Developed a full-stack grocery app with secure payment integration and multi-factor authentication, ensuring robust user security.

- Implemented essential e-commerce features including product catalog, cart, checkout, and order confirmation.
  - Python, Flask, JavaScript, HTML, CSS, MySQL, Stripe, Twilio.
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#### **CERTIFICATIONS:**

Meta Front-End Developer Professional Certificate | by META