

ANIRUDH NEMMANI

Software Engineer

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Education

The University of Texas at Dallas

Dallas, TX

Bachelors of Science in Computer Science, GPA: 3.743

Dec 2025

- Relevant Coursework:** Data Structures and Algorithm Analysis, Object Oriented Programming, Artificial Intelligence, UNIX Programming, Programming Languages, Computer Architecture Design, Database Systems, Machine Learning.

Technical Skills

Languages: Java, Python, C++, JavaScript

Web Development: Figma, HTML, CSS, JSP, React.js, Node.js, Express.js

Data Management and Analysis: Excel, MySQL, PostgreSQL, Prisma, MongoDB, Pandas, NumPy, Plotly

Tools: GitHub, MS Suite, Visual Studio Code, Postman, Jupyter Notebook, Android Studio, Eclipse, JavaFX

Experience

Tyler Technologies

Dallas, TX

UTDesign Software Intern

August 2024 - Present

- Leading the development of a **content management system** for the company's newsletter using Java's **JSP** within a **Spring Boot** application.
- Collaborated with stakeholders to define **user stories** and create **Figma** designs, ensuring user needs and business goals.
- Integrating the CMS with **Oracle Database**, optimizing content storage and retrieval for scalability and efficiency.

Dallas Formula Racing

Dallas, TX

Software Engineer

August 2023 - Present

- Conducted data analysis using **Pandas** and **NumPy** libraries, achieving **30%** increase in overall project efficiency.
- Designed, developed, and tested car suspension functions, incorporating data cleaning, enhancing accuracy by **23%**.
- Utilized **Plotly** to create visualizations from large datasets, providing insights into car performance.
- Collaborated in an **agile** team, participating in **weekly** scrum meetings, streamlining project coordination and delivery.

Projects

Ashramam

Dec 2023 - Jul 2024

- Developed full-stack e-commerce application, with an integrated admin panel using **React.js** front-end, **Node.js/Express.js** back-end, achieving a **98.3%** efficiency score.
- Enhanced security and payment processing by implementing **JWT authentication**, integrating both **PayPal** and **Stripe APIs**, for improved client satisfaction and flexibility.
- Optimized database performance using **MongoDB Atlas**, resulting in **40%** improvement in response times and scalable data management.
- Collaborated **bi-weekly** with client to gather requirements and deliver solutions on schedule.

Debt-A-Way

Jan 2024 - Jul 2024

- Led a **3-person agile** team to develop a user-friendly peer-to-peer debt lending web application achieving **97%** lighthouse performance score using **React.js**.
- Migrated from **MongoDB** to **PostgreSQL** using Prisma ORM, enhancing database reliability and scalability by **73%**.
- Implemented **JWT authentication** for secure user sessions and built robust backend with **Node.js** and **Express.js**, for efficient **CRUD** operations.

Research

AI Research Assistant

Dallas, TX

UT Dallas

August 2024 - Present

- Researched the robustness of **deep learning models** by designing and training **convolutional neural networks** to evaluate performance across varying input configurations.
- Developed and optimized deep learning architectures using **TensorFlow** for robust image recognition tasks, focusing on model resilience and accuracy in real-world datasets.