

# 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:** C, C++, Java, Python, JavaScript

**Web Development:** React.js, JSP, Node.js, Express.js, Spring Boot, HTML, CSS, Redux Toolkit, Figma

**Data Management and Analysis:** Excel, MySQL, PostgreSQL, Prisma, MongoDB, Pandas, NumPy, Scikit-learn, Plotly

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

**Cloud:** Azure

## Experience

### Tyler Technologies

Dallas, TX

Software Engineer Intern - UTDesign

August 2024 - Present

- Spearheaded the development of **content management system** for the company's newsletter using **Java**, **JSP**, and **Spring Boot**.
- Collaborated with stakeholders to define **user stories** and create **Figma** designs, ensuring user needs and business goals.
- Integrated the CMS with an **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 **RTK Query** for state management, **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 for over **10,000 products**.
- 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.