

# ANIRUDH NEMMANI

Software Engineer

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## Education

### The University of Texas at Dallas

Dallas, TX

Bachelors of Science in Computer Science, GPA: 3.779

May 2025

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

## Technical Skills

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

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

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

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

**Cloud:** AWS Certified Cloud Practitioner

## Experience

### Tyler Technologies

Dallas, TX

UTDesign Capstone

August 2024 - December 2024

- Led the development of a **content management system** for the company's newsletter using Java's **JSP** and **Spring Boot**.
- Collaborated with stakeholders to define **user stories** and create **Figma** designs, ensuring user needs and business goals.
- Assisted in integrating **SQL Database**, optimizing content storage and retrieval for scalability and efficiency.

### Dallas Formula Racing

Dallas, TX

Software Engineering Club

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 - RIDE

Dallas, TX

UT Dallas

August 2024 - December 2024

- Developed and optimized CNN model for CIFAR-10 using **TensorFlow**, achieving 97.82% accuracy; conducted sparsity analysis and adversarial example generation in **Jupyter Notebook** to enhance **machine learning robustness**.
- Reduced activation sparsity, visualized results using **deep learning** techniques and demonstrated the trade-off between sparsity and accuracy.