

# ANIRUDH NEMMANI

Software Engineer

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## Education

### The University of Texas at Dallas

Dallas, TX

Bachelors of Science in Computer Science, GPA: 3.715

May 2025

- **Relevant Coursework:** Data Structures and Algorithms, Artificial Intelligence, UNIX Programming, Programming Languages, Computer Architecture Design, Software Engineering.

## Technical Skills

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

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

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

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

## Experience

### 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.

### Ashramam Store

Remote - Dallas, TX

Full-Stack Developer

December 2023 - July 2024

- Developed full-stack e-commerce application, with an integrated admin panel using **Redux toolkit** 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.

## Projects

### Debt-A-Way

July 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.

### Duplicate Image Detector

May 2024

- Developed an advanced image clustering program using **OpenCV** and **machine learning**, achieving **93%** accuracy in identifying and organizing similar and distinct images.
- Improved program performance by **99.7%** through parallelizing feature extraction with **ORB** and **MiniBatchKMeans**, and utilizing **DBSCAN** for effective image clustering.
- Automated organization process by creating directories and enhanced usability with user-friendly CLI.

### Spill - HackUTD X

November 2023

- Collaborated with a team of **4** to build a website using **machine learning** algorithms to predict gas leaks in Natural Gas plants with **61%** accuracy for EOG Resources.
- Led front-end development team using **ReactJS** and **Tailwind CSS**, assisted with back-end development using **Pandas**, **Sklearn**, and **Geopandas** to map models.

## Additional Information

**Leadership Experience:** PTK Honors Society District II Representative, Tiger-Rock Martial Arts Taekwondo Instructor, Blue Valley North Cricket Club Co-Founder, President, and Captain.

**Other Experience:** Overland Park Arboretum Train Operator, Soccer Club, HackUTD X Participant.

**Spoken Languages:** English, Telugu, Hindi