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 Algorithms, Artificial Intelligence, Object Oriented Programming, UNIX Programming, Programming Languages, Computer Architecture Design, Database Systems, Machine Learning.

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

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   **Remote - Dallas, TX**

Full-Stack Developer - Freelance   *December 2023 - July 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.

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.

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.