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 Design, Software Engineering.

Technical Skills

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

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

Database Management: MySQL, MongoDB, Mongoose.

Data Analysis and Visualization: Pandas, NumPy, Scikit-learn, Plotly.

Version Control: Git, GitHub, BitBucket

Other Tools: Visual Studio Code, Postman, Android Studio, Eclipse, JavaFX.

Experience

Dallas Formula Racing — Dallas, TX

Software Engineer — *August 2023 - Present*

- Conducted data analysis using python's **Pandas** and **NumPy** libraries, increasing overall project efficiency by **30%**.
- 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 - Present*

- Built a seamless and high-performance CRM UI using **React.js**, achieving a **96%** score on Lighthouse.
- Successfully integrated **Stripe** payment processing, reducing transaction errors by **40%** from initial stages.
- Implemented a secure backend using **Node.js** and **Express.js** for efficient data handling.
- Collaborated **bi-weekly** with client to gather requirements and deliver solutions on schedule.

Projects

Debt-A-Way — June 2024

- Developed a peer-to-peer lending application in a **3-person** team that facilitates loan transactions between individuals.
- Designed and implemented user-friendly web UI to achieve **97%** performance using **ReactJS**.
- Created a robust backend using **Node.js**, **Express.js**, and **MongoDB** establishing **RESTful APIs** to handle CRUD operations.
- Utilized **Git** and **GitHub** for version control, ensuring seamless collaboration and project integration.

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