

ANIRUDH NEMMANI

Software Engineer

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Education

The University of Texas at Dallas

Dallas, TX

Bachelors of Science in Computer Science, GPA: 3.783 (Cum Laude)

May 2025

Technical Skills

Languages: Java, C#, Python, PHP, C++, JavaScript

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

Data Management and Analysis: Excel, MySQL, PostgreSQL, DBForge, Prisma, MongoDB, Kafka, Pandas, Plotly

Tools: GitHub, Splunk, Docker, Jira, Confluence, Visual Studio, Postman, Jupyter Notebook, Android Studio, JavaFX

Cloud: AWS Certified Cloud Practitioner

Experience

Paycom

Dallas, TX

Software Developer II

June 2025 – Present

- Develop and maintain large-scale background check and tax credit platforms, directly contributing **\$40M+** in product revenue and **\$10M+** in federal tax savings for clients ranging from small businesses to **Fortune 500** companies.
- Resolve client-critical production incidents under strict **12-hour SLAs**, delivering rapid fixes to restore functionality and minimize financial and operational impact.
- Build full-stack features through designing scalable APIs in a **PHP MVC** backend, implementing dynamic **React** frontends, and optimizing **MySQL** data pipelines across **sharded databases**.
- Modernize and optimize massively scaled legacy systems processing **millions of records per client** to ensure high reliability and performance.
- Collaborate cross-functionally** with Product, QA, DBAs, Managers, and Engineers to deliver scalable solutions while driving quality through **code reviews** and engineering best practices.
- Mentor new developers** on codebases, debugging practices, and ownership, enabling faster onboarding and smoother team delivery.

Tyler Technologies

Dallas, TX

Software Engineering Intern – UTDesign

August 2024 – December 2024

- Led a team of 5** in developing a full-stack Content Management System (CMS) for Tyler Technologies' internal newsletter, cutting publication time from **3 days to just 3 hours**.
- Developed an **MVC** application using Java JSP, **Spring Boot**, and PostgreSQL, streamlining publishing workflow.
- Collaborated with stakeholders to define **user stories** and create **Figma** designs, ensuring user needs and business goals.
- Assisted in integrating SQL Database with **Spring Data JPA**, optimizing content storage and retrieval for scalability and efficiency.

Projects

Ashramam (E-commerce App)

Dec 2023 – Jul 2024

- Built a full-stack e-commerce app with **React.js** frontend and **Node.js/Express.js** backend, achieving a **98.3%** efficiency score.
- Integrated **JWT authentication** and both **PayPal & Stripe APIs** to enhance payment security and flexibility.
- Optimized **MongoDB** queries, improving response times by **40%**.

Debt-A-Way

Jan 2024 – Jul 2024

- Led a **3-person** agile team to build a peer-to-peer debt lending platform with **React.js**, achieving a **97%** Lighthouse score.
- Migrated from **MongoDB** to **PostgreSQL** via Prisma ORM, boosting reliability and scalability by **73%**.
- Implemented secure **JWT authentication** and a robust **Node.js/Express.js** backend for efficient CRUD operations.

Research

AI Research Assistant – RIDE

Dallas, TX

UT Dallas

Aug 2024 – Dec 2024

- Optimized CNN models for CIFAR-10 using **TensorFlow**, achieving **97.82%** accuracy; performed sparsity analysis and generated adversarial examples to study **ML robustness**.
- Reduced activation sparsity and visualized trade-offs between sparsity and accuracy using **deep learning** techniques in **Jupyter Notebook**.