

ROHAN RAMAVAJALA

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EDUCATION

University of Illinois Urbana-Champaign – Champaign, Illinois

Master of Computer Science, MCS – GPA: 3.9/4.0

January 2024 – May 2025

- Relevant Coursework: Database Systems, Data Visualization, Applied Machine Learning, Data Cleaning, Cloud Computing, Deep Learning

The University of Texas at Dallas, Erik Jonsson School of ECS – Richardson, Texas

Bachelor of Science, B.S. Computer Engineering – GPA: 3.6/4.0

August 2019 – May 2023

- Academic Excellence Scholarship (AES): Half-ride scholarship for outstanding high school achievements.

EXPERIENCE

State Farm – Richardson, Texas | Bloomington, Illinois

Software Engineer

June 2023 – Present

- Volunteered with the AI team to automate the manual review of questionnaire reports by developing, validating, and deploying an Azure OpenAI LLM on AWS to detect inconsistencies, achieving 92% accuracy, reducing underwriting times by 18%, and saving \$10,000 annually in operational costs.
- Implemented business requests within an Agile Kanban team to maintain Java services for XML and GraphQL data.
- Researched and introduced team to handling frequent orphaned record defects in SQL database.
- Saved 33% of launch time for a large-scale internal web app with an automated bash script.
- Reduced major service latency by 20% from cutting out Java middleware and calling a Spring Boot service directly.

Software Engineering Intern

May 2022 – May 2023

- Developed a TypeScript/React web app for tailored document management, outperforming Gitlab's capabilities.
- Upgraded an outdated web component library to custom React implementations, with roughly 10% contributions.
- Designed new custom Apollo GraphQL schema and optimized query/mutation APIs for frontend consumption.

PROJECTS

UConn Health Grading Tool (Freelancer)

September 2024 – November 2024

[OBLS Grading Tool](#) – Next.js, Typescript, Tovuti API, Mailjet

- Transformed the Obstetric Life Support (OBLS) research team's paper-based evaluation of EMS practitioners into an online grading tool using Next.js and Vercel.
- Integrated web app into Tovuti LMS using an LTI and Tovuti API to link submission data with user profiles.
- Resolved API overload by batching update requests and automated email notifications with Mailjet SMTP service.

Desi Dance Network Legends Mock Judging Assessment Platform (Freelancer)

August 2024 – September 2024

[DDN Legends Mock Judging Assessment](#) – Next.js, Typescript, Google API, Vercel

- Pioneered the development of a scalable, serverless platform to streamline judge selection and application processing for a national dance organization, replacing a limited Google Forms solution.
- Spearheaded the full project lifecycle, from requirements gathering with stakeholders to E2E deployment.
- Eased budgets by engineering real-time PDF generation and authentic video simulations at zero-cost to the client.

Postgraduate Research Selection Dashboard

April 2024 – May 2024

[ScholarBuddy](#) – Python (Dash), Plotly, HTML/CSS, MySQL, MongoDB, Neo4j

- Developed an interactive dashboard for university research outputs using Plotly, Dash, and several database systems to enhance decision-making for postgraduate students and academics.
- Improved query performance by over 30% through indexing, constraints, and stored procedures.

SKILLS/CERTIFICATIONS

- **Skills:** Java, TypeScript, React, Next JS, Python (numpy, pandas, sklearn, scipy, pytorch, dash), GraphQL, AWS (S3, RDS, EC2, Bedrock, Sagemaker), SQL, MongoDB, Automation, Cross-Communication, Problem Solving, Innovation