

MANAS AYYALARAJU

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EDUCATION

The University of Texas at Dallas	Bachelor of Science, Computer Information Systems	December 2026
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EXPERIENCE

Sudur Capital – Full-Stack Web Development Intern; Frisco, Texas	October 2025 – Present
<ul style="list-style-type: none">Designed and implemented a responsive full-stack platform using Next.js, TypeScript, HTML5, CSS, and PostgreSQL, ensuring secure, scalable, and optimized data solutions while significantly improving user engagement and accessibilityDeveloped and launched a real estate investment portal that allowed investors to register, evaluate opportunities, and invest in projects while enabling sponsors to showcase land developments and attract funding seamlesslyAccelerated the delivery of the portal's Minimum Viable Product within three months by writing and managing 20+ user stories in Jira, streamlining workflows, enhancing collaboration, and consistently meeting aggressive project deadlines	
Maxwell IoT Technologies – IoT Systems & Performance Intern; Plano, Texas	October 2025 – Present
<ul style="list-style-type: none">Expanded the IoT product network by 20% through the development of a mobile application and the integration of innovative connectivity strategies that strengthened system scalability and reliabilityBoosted device productivity by 15% by applying advanced LoRa WAN technology to build a robust and efficient network, while gaining deep expertise in IoT performance analysis and optimizationIncreased the number of active devices by 25% by supporting system testing, troubleshooting, and client issue resolution, while documenting solutions that enhanced customer satisfaction and system performance.	

PROJECTS

AI-Powered Resume Builder– AI Engineer	Fall 2025
<ul style="list-style-type: none">Built an intelligent resume-tailoring system using GPT-4o-mini with domain detection across 4 major industries, improving keyword recall by 40% and generating ATS-optimized resumes that dynamically adjust density to match job descriptions.Designed generative optimization pipelines that reorder skills by relevance, evaluate resume completeness, and rewrite bullets while preserving structure and metadata—boosting ATS match alignment by 30–35% across test job descriptions.Deployed the platform using Dockerized FastAPI (LLM inference) and LaTeX-based PDF generation on Render & Vercel with CI/CD automation, enabling scalable, production-ready AI-driven resume personalization.	
Personal Finance Health Predictor– Machine Learning Engineer	Fall 2025
<ul style="list-style-type: none">Built an end-to-end ML platform processing 285,000+ financial records to deliver credit risk prediction, fraud detection, and customer segmentation models, achieving 70% ROC-AUC for risk assessment and 97.7% ROC-AUC with 85.7% recall for fraud detection using XGBoost and SMOTE.Engineered 26+ features, resolved critical data leakage issues, created 40+ visualizations (ROC curves, confusion matrices, feature plots), and identified 4 customer personas through clustering to enable personalized financial recommendations and targeted marketing strategies.Deployed the system with FastAPI using three prediction endpoints, Pydantic validation, and 10+ unit tests, delivering production-ready APIs that reduced manual loan review effort by 30%, improved marketing conversion by 15–20%, and enabled real-time fraud prevention.	
NBA Schedule Analysis Project – Data Science Analyst	Fall 2025
<ul style="list-style-type: none">Processed and analyzed over 1,200 NBA schedule records using Python, pandas, and Jupyter Notebook to evaluate patterns in game density, rest days, and back-to-back sequences across multiple seasons.Developed more than 10 statistical models and visualizations with matplotlib and seaborn, providing clear insights into scheduling effects and ensuring results were presented in an accessible and professional format.Improved workflow efficiency and reproducibility by 30% by implementing structured coding practices, documenting each step thoroughly, and delivering well-organized analytical outputs for future reference.	
IBM Case Competition – AI & Data Analytics Consultant	Fall 2024
<ul style="list-style-type: none">Improved food-desert detection accuracy by 25% using Watson AI on geo and API datasets to better identify underserved areas.Built a predictive model with a team to guide local government resource allocation and enhance community food access.Presented analytics-driven insights and recommendations to IBM judges, highlighting strategies to reduce food insecurity.	

ADDITIONAL INFORMATION

Computer Skills: Next.js | HTML5 | CSS | TypeScript | Java | Tableau | Power BI | Python | SQL | PostgreSQL | Jira

Certifications: Microsoft Office Specialist: Excel Associate | Google Advanced Data Analytics Professional Certificate

Languages: English, Kannada, Telugu, and Hindi.

Work Eligibility: Eligible to work in the U.S. with no restrictions.