

Nitin Sampath Rohan Bheemavarapu

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Summary

Information Systems Analyst with 2+ years of experience designing, analyzing, and improving business & data systems across healthcare and enterprise environments. Skilled in requirements gathering, system modeling, documentation, and post-implementation evaluation. Adept at coordinating vendors and stakeholders, troubleshooting issues, and optimizing processes for cost-effective, compliant, and efficient information systems. Experienced with Agile/SDLC; known for clear communication and analytical precision.

Core Competencies

Systems Analysis & Design: Requirements Elicitation, Data Flow Diagrams, Feasibility Studies, BRD/FRD, Functional/Technical Specs

Project Management: Planning & Scheduling, Risk/Issue Tracking, Cost Estimation, QA Oversight, Post-Implementation Audits, Continuous Improvement

Business Process Optimization: Workflow Automation, Reporting, System Integration, Change Control, Policy/Compliance

Tools & Technologies: SQL, Python, Spark, AWS, Azure, Snowflake, Tableau, Power BI, Jira, Confluence, MS Project, SharePoint, Visio

Methodologies: Agile, Scrum, Kanban, SDLC, Waterfall **Soft Skills:** Analytical Thinking, Stakeholder Communication, Documentation, Customer Focus, Collaboration

Professional Experience

Texas A&M University–Corpus Christi (Islander Housing)

Jan 2024 – Jan 2025

Data Analyst – Resident Engagement & Insights

- Analyzed 15,000+ records on participation, satisfaction, and behavioral trends across 400+ residents, shaping campus engagement strategies.
- Built 5+ interactive dashboards and automated reporting (Excel, Power BI), improving decision-making speed by 30% and operational efficiency by 20%.
- Developed predictive models on historical survey data to forecast attendance with 87% accuracy, enabling proactive planning and resource allocation.
- Partnered with 6+ campus departments to turn insights into actions, increasing student engagement rates by 25% over two semesters.

Texas A&M University–Corpus Christi

Jan 2024 – May 2024

Research Associate (Volunteer)

- Ran 20+ controlled experiments on model-stealing attacks in deep neural nets; analyzed 500k+ data points to evaluate vulnerabilities and strengthen defenses.
- Designed adversarial simulations; cleaned and processed 10+ GB of model logs using Python (NumPy, Pandas) and Jupyter for EDA.
- Collaborated in a 4-member team; findings improved model robustness by 15% against simulated attacks.
- Authored 3 research reports documenting methods, results, and recommendations for future AI security work.

Palo Alto Networks

Apr 2022 – May 2022

Cybersecurity Intern

- Completed four certification modules analyzing system logs, cloud traffic, and SOC workflows to identify security gaps.
- Performed 20+ hands-on labs parsing network/cloud traffic to recognize log signatures for unauthorized access patterns.
- Passed assessments (100+ questions), validating knowledge in incident response and system hardening.

Projects

Data Cleaning & Visualization

Jan 2024 – Aug 2024

Excel, Power BI, Tableau, Python

- Processed and visualized **1M+** rows; delivered interactive dashboards and KPI views for multi-modal datasets.
- Built a Power BI report (631 rows, 7 columns) with bar charts, summary metrics by region/car ownership, and interactive slicers.

Saturday – Sentiment-Aware Chatbot*Jan 2025 – Apr 2025**Python (Transformers), FastAPI, BERT*

- Trained a BERT-based emotion classifier (**85% accuracy**) and integrated it with an LLM for contextual multi-turn dialogue.
- Optimized inference pipeline to achieve real-time responses (**<200 ms**) with lightweight transformer serving.

JobPiece – AI-Enhanced Job Tracker*May 2025 – Present**JavaScript, Node.js, Firebase, Chart.js, CI/CD*

- Designed a scalable web app supporting **100+** tracked applications with dynamic data visualizations and status analytics.
- Implemented CI/CD pipelines that reduced production bugs by **40%** and improved deployment reliability.

Education**M.S, Computer Science** - Texas A&M University–Corpus Christi, TX*May 2025***B.Tech, Computer Science & Engineering** - MVGR College of Engineering, India*Apr 2023***Additional Information**

Eligible to work in the U.S. (F-1 OPT). Experienced collaborating with government and private-sector teams. Knowledge of state IT documentation standards, including feasibility analyses, RFP/RFI contributions, APD/TIN support documentation, and systems audits.