

RISHIK KANCHANAPALLY

rishik.kanchanapally@gmail.com | linkedin.com/in/rishikk | US Citizen

EDUCATION

- Master of Science, Computer Science (Intelligent Systems Track)** May 2026
The University of Texas at Dallas
- Bachelor of Science, Computer Science** May 2025
The University of Texas at Dallas
- National Merit Scholar and CS² Honors

WORK EXPERIENCE

- Software Development Engineer** | C#, Selenium, SQL, Docker May 2025 – August 2025
Paycom
- Developed Selenium-based regression tests in C# for payroll workflows and containerized execution with Docker
 - Automated SQL queries to streamline database migration testing, identifying a schema mismatch before release
 - Partnered with developers and QA to write test plans, debug failures, and expand coverage for edge cases
- Software Engineer** | Java, UiPath, Visual Basic .NET, REST APIs May 2024 – December 2024
Arkansas Blue Cross and Blue Shield
- Built and deployed a Java-based automation system for Medicare claims pricing by integrating internal web services with an external pricing tool, with projected savings of 10,000 manual entry hours per year
 - Trained a machine learning model using NLP and OCR techniques to extract and digitize handwritten fields from prior authorization request forms, significantly reducing manual entry and improving processing speed
 - Transformed JSON payloads between internal and external tools, aligning data formats for data integration
 - Set up automated CI/CD pipelines with UrbanCode Deploy and Jenkins to streamline deployments
- Full Stack Engineer** | Python, Flask, JavaScript, HTML/CSS May 2021 – April 2022
Apothecwell
- Built and deployed a Flask web application on Linux with dynamic forms and email-based support workflows
 - Configured Nginx as a reverse proxy to serve the app, and used PuTTY for remote access and server management
 - Contributed to early product validation by testing the mobile app and prototyping hardware

PROJECTS

- Event Market Trading Bot** | Python, Whisper, WebSockets, NLP July 2025 – Present
- Built a real-time data pipeline to process live audio streams over WebSockets and transcribe speech with Whisper
 - Implemented transcript analysis using regex-based detection and speaker-aware NLP/LLM processing
 - Added latency tracking for detection and order execution to diagnose bottlenecks and monitor response time
 - Optimized pipeline to achieve ~1.5s end-to-end latency from audio ingestion to keyword detection and execution
 - Built execution tooling to stage bulk orders beforehand and submit them with a single click
- Deepfake Detector** | PyTorch, Pillow, NumPy, Pandas, OpenCV January 2024 – May 2024
- Built AI system requiring only one authentic photo to flag deepfake photos/videos in high-risk identity checks
 - Owned training and integration of two cutting-edge AI models for face recognition and deepfake classification
 - Delivered 84% accuracy across 800+ image/video samples, supporting use in real-world content screening
 - Classified suspect content in under 3 seconds on average, enabling real-time deepfake detection at scale
- Social Media Data Analysis** | Python, Twitter API, TextBlob, Botometer, Tableau Aug 2022
- Collected and analyzed 30,000 keyword-specific tweets through the Twitter API using Python
 - Performed sentiment analysis with Python's TextBlob library for Natural Language Processing; used Botometer for distinguishing bot activity
 - Built Tableau visualizations to communicate trends in sentiment and bot-driven activity by location and popularity
- Computer Vision Research at UTD** | Linux, Git, Machine Learning, yt-dlp May 2022 – July 2022
- Curated a dataset to fine-tune an ML model, SMPLify-X, which converts speech input into 3D body gestures
 - Tested changes in dataset diversity and hyperparameters to evaluate the model's use in animating digital avatars
 - Presented a poster at the SPUR research symposium, winning the CS Honors Presentation Award and \$100

TECHNICAL SKILLS

C++, Python, Java, C# .NET, JavaScript, Unix/Linux, Jenkins, REST APIs, AWS, Atlassian, Kubernetes, GitLab, Tableau