NAGA PRANAV PUPPALA

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EDUCATION

The University of Texas at Dallas, Dallas, TX **May 2026**

Bachelor of Science, Computer Science

- GPA: 3.79
- **Relevant Coursework**: Computer Architecture, Discrete Mathematics, Computer Science I, Computer Science II, Linear Algebra, Probability and Statistics

PROJECTS

Personal Portfolio Website **Aug 2023**

- Designed and developed a fully responsive website using HTML, CSS, and JavaScript to showcase personal projects and skills.
- Implemented responsive design techniques to ensure compatibility across various devices and screen sizes.

University Website Design **July 2023**

- Designed and developed a multi-page university website using HTML and CSS, focusing on a clean, user-friendly interface and consistent design across all pages.
- Implemented navigation and layout techniques to enhance user experience and site functionality.

Desktop Assistant **June 2024**

- Developed a Python-based assistant with Tkinter for GUI, speech_recognition for converting speech to text, and pyttsx3 for text-to-speech conversion.
- Created and integrated various modules including speech processing, action handling, and GUI components to deliver a seamless user experience.
- Leveraged libraries such as Pillow for image handling and webbrowser for URL management, enhancing the functionality and interactivity of the application.

Network Simulator and Event Management System **March 2024**

- Designed and implemented a comprehensive event management system and network simulator to handle and simulate network traffic using Java. The project involved creating a priority queue for managing events and expanding its functionality to model network communication within a star topology.
- Developed a linked-list-based Future Event List (FEL) to extend the system's capability, facilitating efficient handling of dynamic network events in real-time simulations.

TECHNICAL SKILLS

Programming Languages: HTML, CSS, Python, Java, C++ and JavaScript
Tools: Scikit-learn, NumPy, Pandas, Tkinter, BeautifulSoup, Selenium and Bootstrap
Certifications: Python for Data Science, AI & Development from IBM (issued in July 2024)

RESEARCH AND ORGANIZATIONS

Computer Network Intrusion Detection **Feb 2024 -present**

- Participating in an undergraduate research group focused on developing advanced network intrusion detection systems using machine learning techniques.
- Engaging in the study of unsupervised learning methods for detecting network intrusions, including misuse and anomaly detection
- Acquiring knowledge on clustering methods and their application in detecting Distributed as a Service (DaaSS) attacks.