Jack Myrick

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Education

- **The University of Texas at Dallas** — Richardson, Texas
  Bachelor of Science in Computer Science; GPA: 4.00 — *August 2021 - May 2025 (Expected)*
  Previous Courses: *Computer Science II (C++), Discrete Mathematics II, Computer Architecture, Linear Algebra, Advanced Calculus*
  Current Courses: *Data Structures & Algorithms, Probability & Statistics, Topological Data Analysis*

Experience

- **Noblis** — Reston, VA
  Technical Intern - Federal Civilian Solutions — *June 2022 - August 2022*
  - Worked on the Knowledge Spark NSR (Noblis Sponsored Research) team to develop a **virtual assistant** to assist with information retrieval utilizing **graph data**
  - Used the Microsoft **Bot Framework SDK** with **JavaScript** and **Node.js** to receive and send messages to the user and track context
  - Utilized the **spaCy** library running on a local **Python** server to parse input and determine user intent, which was used by the bot to generate responses in combination with existing context

Projects

- **Classification of Music using Convolutional Neural Networks** — ACM Research
  Python, TensorFlow, Keras, Flask, Docker — *February 2022 - May 2022*
  - Worked with three other team members under a research lead and Dr. Feng Chen to design and train a neural network to classify music by genre
  - Deployed the neural network on a Flask website using Heroku and Docker
- **EnchantPro** — UT Dallas Esports
  Java, Spigot API — *May 2021 - October 2021*
  - Developed plugin for custom enchantments on Minecraft servers with another student
  - Used on the UT Dallas Esports club official Minecraft server, which had over 300 individual players
- **Easy Rank** — Comet Hack 2021
  C#, Blazor, ASP.NET, Microsoft Azure — *April 2021*
  - Developed website and algorithm for users to rank items on a list through a series of simple binary choices
- **Facial and Hand Gesture Input for Interactive Media** — Personal Project
  Python, MediaPipe, OpenCV — *July 2021 - August 2021*
  - Utilized computer vision and facial and hand recognition to give various inputs to control interactive media such as Minecraft
- **Browser Buddy** — TAMUhack 2022
  JavaScript, HTML, CSS — *February 2022*
  - Created Firefox extension with another student to display an uploadable and configurable image of a buddy to accompany you while browsing the web
- **Nebula API** — Nebula Labs
  TypeScript, Express.js, Selenium, MongoDB — *February 2022 - Present*
  - Contributed to and maintained an open-source collaborative project to facilitate easy access to UTD data and information and to be used across Nebula Labs projects
  - Designed and discussed schemas with other members and created documentation to reflect those decisions
  - Scraped professor data and other data, which is stored on MongoDB and accessible via endpoints made using Express

Skills Summary

- Languages: Python, JavaScript, Java, C++, C#, TypeScript, Dart, MIPS Assembly, Rust
- Frameworks: Bot Framework SDK, Flask, Express, Flutter, React, Blazor, ASP.NET
- Libraries: spaCy, TensorFlow, Keras, MediaPipe, OpenCV, Spigot API, discord.py, Google Sheets API
- Tools: Git, GitHub, Docker, Heroku, MongoDB, PostgreSQL, Azure, AWS, Cloudflare Workers

Honors and Awards

- **Computing Scholar** - Member of selective UTD CS Honors program (30 students per year)
- **National Merit Scholar** - Full-ride scholarship to UTD on the basis of PSAT (1490) and SAT (1590) scores