

# Dan Nguyen

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## Education

### Master of Science in Computer Engineering

Graduating May 2026

The University of Texas at Dallas

Richardson, TX

- *Coursework:* Machine Learning & Pattern Recognition, Computer Architecture

### Bachelor of Science in Computer Engineering

Graduating May 2025

The University of Texas at Dallas

Richardson, TX

- *GPA:* 3.88/4.0
- *Coursework:* Software Engineering, Data Structure & Algorithms, Probability & Statistic
- *Honors:* Honors Program, Dean's List, Collegium V Honors Scholar

## Skills

- **Programming Languages:** Python, C++, Java, JavaScript, HTML/CSS, YAML, Assembly, C
- **Technologies:** Azure, AWS, Docker, Flask, Google Cloud, Keras, PyTorch, Spark, TensorFlow, Node.js
- **Skills:** Big Data, Cloud Computing, Machine Learning, Natural Language Processing, Web Development

## Certifications

[Microsoft - Azure Fundamentals \(AZ-900\)](#)

May 2023

[Databricks - Lakehouse Fundamentals](#)

Jun 2023

## Work Experience

### Product Engineering Intern

Jun 2023 - Present

Health Care Service Corporation

Richardson, TX

- Analyzed and gathered requirements for an in-house big data ingestion pipeline framework.
- Developed PySpark application to generate big scale synthetic data for development's testing.
- Implemented SonarQube code review profiles for 7 departments to reduce technical debt.
- Achieved first place in a company hackathon event, showcasing project slated for future implementation.

### Help Desk Supervisor

Dec 2021 - May 2023

UT Dallas Office of Information Technology

Richardson, TX

- Promoted twice in 16 months, transition from Analyst to Technician and now in current role.
- Resolved over 750 tech support tickets and trained 7 new student analysts for the Help Desk

## Selected Projects

### [CompassUTD - Unofficial UT Dallas Chatbot](#)

Jun 2023 - Present

- Create Langchain tools for Google Vertex AI's PaLM 2 to access up-to-date information about UT Dallas courses, degrees and general information that helped 132 UT Dallas undergraduate and graduate students.
- Made with Python using Google Cloud's Vertex AI's PaLM 2, Cloud Run, Langchain, FastAPI, and MongoDB.

### [PromptGPT - ChatGPT's Prompt Generator](#)

May 2023 - Jul 2023

- Instruction-tuned an open-source language model Dolly-v2 from Databrick that optimize users' prompt for large-foundation-model usage(Bard, ChatGPT).
- Made with Python using Google Cloud's Vertex AI, Pub/Sub, Cloud Run, PyTorch, FastAPI, and MongoDB.

### [Intelli-Fridge - Track Food In Your Fridge](#)

Apr 2023

- Won 1st place in AI/ML for Finance and Retails category as a team of 4 in HackAI 2023
- Developed a computer vision application that tracked fridge ingredients and generated recipes for end-users.
- Made using Python with YOLOv5, AWS SageMaker, Roboflow, GPT-3, FastAPI, with Node.js for frontend.

### 8-bit CPU

Feb 2023 - May 2023

- Developed an 8-bit CPU that can perform addition, subtraction, multiplication and jump as a team of 4.
- Designed custom opcodes and instruction to control the CPU and made using basic electrical hardware