

EDUCATION

University of Florida

Herbert Wertheim College of Engineering

Gainesville, FL

Aug 2021 – May 2025

- Bachelor of Science in Computer Science / Minor in Mathematics
- GPA: 3.94 / 4.00
- *Honors*: Dean's List, Presidential Honor Roll, Honors Program, AI Scholarship
- *Coursework*: Data Structures and Algorithms, Applied Machine Learning, Operating Systems, Databases, Software Eng., Probability Theory and Stochastic Processes

WORK EXPERIENCE

UnitedHealth Group

Software Engineer

Eden Prairie, MN

Jun 2023 – Aug 2023

- Developed and supported a custom identity and access management product that services 400,000+ employees
- Built backend and database infrastructure to support data flow for new AI feature, streamlining access review process by 50%
- Built and unit/regression tested features for .NET web APIs and console apps using C#, TypeScript, SQL Server, and Postman
- Communicated ideas & suggestions in scrum ceremonies (sprint planning, daily stand-ups, sprint review)

UF Smart Medical Informatics Learning & Evaluation Lab

Machine Learning Researcher

Gainesville, FL

Jan 2023 – Present

- Founded a project to improve deep learning models' accuracy in Parkinson's prediction with generative AI data augmentation
- Achieved over 70% base accuracy in Parkinson's disease prediction from retinal scans with machine learning classifiers
- Distributed training and testing of models in PyTorch using the HiPerGator supercomputer at UF

UF Computational Reasoning Group

Data Science Researcher

Gainesville, FL

Jan 2022 – Nov 2022

- Optimized learning in a programming course by investigating student characteristics and behaviors
- Developed a statistical model in Python using Pandas, NumPy, Matplotlib, and Seaborn that established a correlation between students' procrastination & their performance in the course ($p = 0.0035$)
- [Published results](#) in Koli Calling 2022, an international computing education conference

Intertape Polymer Group

IT Security Analyst

Sarasota, FL

May 2022 – Aug 2022

- Managed employees' cyber safety practices to ensure implementation of cybersecurity standards
- Documented the company's IT network infrastructure to more efficiently plan for cybersecurity threats
- Constructed application network diagrams using Microsoft Visio

PROJECTS

Train of Four

Apr 2023

- Developed a computer vision app to aid in dosing of anesthesia in pre-procedure patients by analyzing muscle reactivity
- Logged patients' hand movements using OpenCV in Python, and statistically analyzed movement data using NumPy

PropertyProbe

Apr 2023

- Developed a webapp that allows users to search for pre-foreclosure properties in Florida by ZIP code
- Built the front end and enabled map functionality using Angular, TypeScript, and JavaScript

Lightweight Optimized Integrated Search (LOIS)

Dec 2022

- Created a Family Guy search engine that allows users to search for episodes based on character(s) and dialogue
- Implemented dynamic programming search algorithms in Python and connected to JavaScript front end using a Flask API

LEADERSHIP & INVOLVEMENT

UF Indian Students Association – *External Vice President*

Jun 2022 – Present

Other: Association for Computing Machinery, UF Dream Team Engineering, UF Engineering Leadership Circle

SKILLS

Programming Languages: Python, C++, C#, Java, JavaScript, TypeScript, HTML/CSS, SQL

Frameworks & Tools: Git, PyTorch, Flask, .NET, React, Angular, SQL Server, Azure DevOps, Agile Scrum Methodology