

# Nishant Nagururu

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## EDUCATION

### Bachelor of Science, Computer Science

University of Florida, Gainesville, FL

Graduation: May 2026

GPA: 4.0

- **Coursework:** Data Structures, Software Engineering, Database Systems, Algorithm Abstraction, OS

## SKILLS AND CERTIFICATION

### Languages

Python, Java, C++, C#, JavaScript, TypeScript, Swift, Kotlin, SQL

### Frameworks/Tools

TensorFlow, AWS, React, React Native, Figma, Agile, MongoDB, Firebase, PowerBI, GCP

### Certifications

Certified Associate in Python Programming, NLP With ML, SQLite, AWS Cloud Practitioner

## EXPERIENCES

### Undergraduate Researcher, Movement Estimation and Assessment Laboratory

Sep 2023 – Present

- Utilized UF's supercomputer along with **SLURM** scripts to allocate hardware to train video segmentation models
- Made an **iOS** app with **Swift** and **Apple Vision** and a mirror **Android** app with **Kotlin** and **MediaPipe** to collect video data and do edge analysis, supported by an AWS backend using **Cognito**, **S3**, **Lambda**, and **RDS**

### Co-Founder, Candor

Feb 2023 - Present

- Coded a mobile app using **TypeScript** and **React Native** and deployed to the App Store and Google Play Store
- Architected a **JavaScript** backend supported by **Firebase**, **MongoDB**, and **EC2** for hosting with **load balancing**
- Designed a dashboard in **React Native for Web** with **web sockets** and email automation with **Twilio SendGrid**
- Developed a custom **RAG** chatbot, supported by **Cohere** vector embeddings and **MongoDB Vector Search**
- Garnered over 1500 downloads, \$22,500 through pitch competitions, 2 paying customers, and got a YC interview

### Global Technology Summer Analyst, Bank of America

June 2024 – Aug 2024

- Developed modular, **object-oriented** reports in **Python** for querying a proprietary object-oriented database, ensuring compliance with evolving international regulations for BofA's global OTC trades
- Fixed a production level issue in the server connection protocol, saving over \$50,000 in potential regulatory fines
- Automated Jira ticket creation workflows using its REST API, saving 20 hours a week over 10 teams

### Software Development Intern, NextEra Energy, Inc.

May 2023 – Aug 2023

- Coded a **REST API** in **Java Spring Boot** and integrated it into the **JavaScript/jQuery/HTML** frontend
- Configured backend to read **UDP** packets from a GPS device to get location data while offline
- Implemented a generic query table in **SQLite**, increasing iteration speed of the disconnected package by 500%
- Deployed and supported the web app in a pilot of over 300 users, which will save \$50,000/year

## ACTIVITIES AND LEADERSHIP

### Computational Reasoning Group, Undergraduate Researcher (Dr. Ashish Aggarwal)

May 2024 – Present

- Scraped data using Selenium of 200,000 UF engineering alumni from LinkedIn for career analysis
- Used and compared different LLM's performance in automatically labelling the LinkedIn data in 7 categories
- Tuned prompts to achieve over 90% accuracy in all categories and performed trend analysis on resulting labels

### Dream Team Engineering, CTGAN Team Captain

Jan 2024 – Present

- Employed **TensorFlow** to create a **Wasserstein Generative Adversarial Network (WGAN)**, **Progressive GAN**, and **Self-Attention GAN** to supplement COVID CT scan data by creating artificial images
- Trained all the models on over 100,000 training images using a supercomputer and **SLURM** batch jobs
- Evaluated the images produced by each GAN with **FID**, **LPIPS**, and **MMD** to compare the model fidelities

### Dream Team Engineering, Train of Four Software Team Member

Jan 2023 – Dec 2023

- Employed **OpenCV** and **Mediapipe** to detect hands and the distance between different parts of the hand
- Developed a virtual testing environment in **C#/Unity** that simulated the Train of Four medical procedure
- Reduced the margin of error of the Train of Four test output from 20% to 3% and created a supporting GUI
- Won **2<sup>nd</sup> place** for our medical device at the international **Biomedical Engineering Society** conference