

Anish Guntreddi

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EDUCATION

University of Miami College of Arts and Sciences **Coral Gables, Florida**
Bachelor of Data Science and Artificial Intelligence in Computer Science and Computational Science and Applied Statistics
Expected: May 2026

- **Honors:** Stamps Scholar at University of Miami (Highest Honor Scholarship at University of Miami)

CERTIFICATIONS

- **Microsoft Technical Associate:** Introduction to Programming using JavaScript
- **Microsoft Technical Associate:** Introduction to Programming using Java
- **Microsoft Technical Associate:** Introduction to Programming using HTML and CSS
- **Microsoft Technical Associate:** Introduction to Programming using Python
- **Udemy Certification:** Machine Learning A-Z

SKILLS

Programming Languages: Python, HTML, CSS, Java, JavaScript, C++, C#, C, Swift, SQL, PHP, Excel VBA

Frameworks: NextJs, ReactJs, TensorFlow, Pytorch, NodeJS, TailwindCSS, Laravel, MySQL, Mongoose, Express, Xcode, React Native, JUnit

Services / Databases: Clerk, MongoDB, Supabase, Firebase, Google Map APIs, MariaDB, Swagger, Docker

WORK EXPERIENCE

Headstarter **Long Island City, New York**
Software Engineering Fellow | NextJS | HTML | CSS | ReactJS | July 2024 – Till Date

- Developed Projects ranging from Professional Portfolios using Next.js Framework to AI Web-based Applications
- Used Open AI API and other AI endpoints with the support of customization using Pytorch and TensorFlow

DUCAB (Dubai Cable Company) **Dubai, United Arab Emirates**
Quantitative Analyst and Data Science Intern | Python | SAP | Excel VBA | ABAP June 2024 – August 2024

- Engineered an advanced algorithmic trading bot for DUCAB Hedge Fund, including the design and optimization of a proprietary trading algorithm. Led the automation of critical hedge fund processes, enhancing operational efficiency while safeguarding and maximizing the firm's asset value
- Automated the auditing process for companies using Python by extracting data from multiple Excel sheets and consolidating it into a comprehensive master report, significantly improving efficiency and accuracy in financial audits.
- In concurrence to creating a trading algorithm, I also facilitated the automation of data entry from purchase orders using Python to read purchase order PDFs and create excel sheets which are then automatically entered into SAP, reducing processing time by 80%. (30 mins to 4-5 mins)

University of Miami Cancer Research Laboratory **Coral Gables, Florida**
Student Researcher | R | Rstudio | Python | November 2023 – Till Date

- Using R to create Statistical Models
- Gene Research in which we attribute the correlation of HERV type genes to Brain Cancer and other forms of Cancer
- This research focuses on the relationship between gene expression of a certain type of gene called HERV (Human Endogenous Retroviruses) and compares the level of gene expression in different types of glioblastoma, a type of cancer that originates in the brain.
- Compared between different sets of patient data in different regions of the brain and was able to effectively visualize the data into a Volcano Plot

AVAS Technology **Atlanta, Georgia**
Full Stack Software Engineering Intern | Laravel | PHP | JUnit | MariaDB | August 2023 – December 2023

- Developed and maintained a full-stack application using PHP, Laravel, and JUnit
- Seamlessly incorporated the use of effective unit testing while also adding new features
- Led the development of a web application aimed at optimizing classroom management, including the migration and creation of the backend using PHP

Walmart Global Technology **Bentonville, Arkansas**
Supply Chain Intern, Walmart Supply Chain Team. | Springboot | SwaggerUI | JUnit | Java | October 2021 – May 2022

- Optimized operations by successfully integrating a supplier vendor service that accounts for 30% more efficient movement.
- Worked on the maintenance and integration of supply chain information to Walmart servers worldwide during COVID 19 when the supply chain was completely stagnant

Walmart Global Technology

Bentonville, Arkansas

Mobile App Development Intern, Walmart CVP Price Execution Team. | ReactNative | Springboot | Swagger October 2020 – May 2021

- Worked on the maintenance and optimization of the Walmart Mobile Application on international servers such as the UK, Japan, China, etc.
- Main priority was optimizing and updating pricing labels to make sure new prices appear on time and to clean up and get rid of pricing for old stock.

PROJECTS & LEADERSHIP EXPERIENCE

Unsupervised Machine Learning Algorithmic Trading Bot

July 2024

| Python | Jupyter Notebook |

- More advanced trading model that downloads the S&P 500 Index fund and uses a K-means Clustering to find out what stocks to add to the portfolio that is predicted to grow.
- Uses Different Technical Indicators as features such as ATR (Average True Range), MACD (Moving Average Convergence Divergence), Bollinger Bands, RSI (Relative Strength Index).
- Also employed the use of Fama French Factors as well with the Garman Klass Volatility Formula as training features.

Basic Algorithmic Trading Bot

June 2024

| Python | Jupyter Notebook |

- Created a simple stop-loss trading bot that traded within a 1% margin on trade options
- Still am back testing the algorithm, but was able to see promising results
- Used Python and Jupyter Notebook to develop this algorithm.

Machine Learning Algorithms

November 2023

| Python | Sci-kit Learn | Jupyter Notebook |

- Used Pandas to data preprocess sample data sets and use machine learning algorithms from sci-kit learn library to train models from training set of data and testing the results to check the correspondence to the results of the training set to see if they fit.
- Worked with various algorithms and models such as Clustering, Regression, and Classification Algorithms.
- Worked through this in my Udemey Certification Course

Full Stack Real Estate Website

June 2023

| NextJS | HTML | CSS | Clerk | Supabase |

- Developed and a Full Stack Next JS application that creates and manages housing properties.
- Application has full CRUD operations for facilitating user experience
- Seamless search engine that uses Google Maps API to visualize a map of location of properties
- Not deployed yet, but still working on adding admin functionality, floor plan blueprints, and improving search functionality

Code-Go Non-Profit Initiative

May 2021

- Founded a Non-Profit summer camps that teach Computer Science basics for kids who are unsure what they are interested to do in the future
- Created 3 courses: Computers and Code (Teaches the basics of parts in a computer and teaches the basics of the programming language of python), Web development (Introduction to programming in HTML CSS and JavaScript to develop websites), and Game Development (Developing games In Python using the pygame library)
- Each of the kids were also able to make their own respective personal projects during this course and were shown to their parents at the end of the summer camps.
- Program was a big success with over 80 kids being enrolled in this program

Mock Social Media App

November 2020

| Swift | Xcode | Firebase |

- Created a mock social media app for. Future Business Leaders of America (FBLA) Competition
- Received First in the State of Arkansas and placed 6th nationals
- Application's purpose was to become a social media network for internships much like how LinkedIn was used for professional networking and job searching

- App effectively integrates CRUD operations, allows for user searching, and allows for user to create posts and advertisements for jobs

Ruthale Barker Robotics Program Mentorship

September 2019

- Founded and Initiated the Robotics program at my local middle school
- This was a very positive experience where I was able to be very interactive with the students and they were able to learn a lot and ended up being able to build their own robots using VEXIQ Software to program and build robots