

# Kori Vernon

## Technical Skills

**Languages** Python (Strong), C++ (Strong), Java (Intermediate), Verilog (Previous Experience), HTML/CSS (Previous Experience), Dart (Previous Experience), JavaScript (Previous Experience).

## Experience

- August 2022–  
Present **Technology Analyst**, *Technology Analyst Program (TAP)*, Institutional Securities Technology, Morgan Stanley.
  - Technology Analyst in Morgan Stanley TAP program, reinforcing programming fundamentals, coding practice within Morgan Stanley, and improving proficiency in languages: C++, Java, Scala, and C#.
- February 2022–  
August 2022 **Automated Risk Trading Production Engineering Analyst**, *Reliability and Production Engineering (RPE)*, Automated Market Making (AMM), Morgan Stanley.
  - Reliability and Production Engineer providing DevOps support for the AMM Team during trading hours, creating tooling, ready for business indicators, and building on existing infrastructure.
  - Implemented report aggregation tool and dashboard for AMM DevOps Engineers to easily: load in, view, query, export, and delete outdated data to expedite the process to solve and resolve issues efficiently.
- May 2018–  
Present **Owner**, Ahia Solutions LLC.
  - Operate a solution oriented firm focused on alleviating the pain-points of small businesses in the Research Triangle Park and New York Metropolitan area, and manage operations for economy rental vehicles.
  - Manage and create websites, analyze business processes, and automate tasks for small businesses to increase profit margins and improve online presence.
- June 2019–  
January 2022 **Teaching Assistant**, *Data Structures & Algorithms and Introduction to Programming*, New York University.
  - Assisted faculty and other instructional staff by performing teaching related duties, developing teaching materials, preparing exams, hosting office hours and labs, grading exams and homework.
- October 2021 **Full Stack Developer**, *Private Equity Connection*, New York.
  - Tasked with creating, a web-based Private Equity modeling application.
  - Utilized Python and Flask library to create a proof-of-concept for dynamically creating excel models.

## Projects

- May 2022 **Stock Market Prediction Email**, *Personal Project*, Python.
  - Utilized yfinance library to generate daily email predictions of current day Stock Market Performance by using S&P500, NASDAQ, Dow Jones, their respective Futures, and previous day traded volume.
- January 2022 **Tesla Fleet Management Application**, Python.
  - Created a web application using Flask and Tesla API to see important diagnostic information, lock, unlock, and remotely start vehicles to make the process of managing Tesla rental fleets easier.
- December 2021 **License Plate Character Classification**, *Partner*, Python.
  - Collected sample images of license plates and built license plate character classification models using Logistic Regression, Support Vector Machines, and Neural Networks.
  - Logistic Regression, and Support Vector Machine models yielded performance of 100% sample license plates.
- July 2020 **#BlackOwned**, *Partner*, React Native.
  - Application created to discover black owned businesses near users so they can take action and support Black Owned Businesses in their community.
  - Implemented map search feature to make user experience better.
- August 2020 **Call/Put Stock Option Finder**, *Personal Project*, Python.
  - Utilized yfinance library to create an algorithm to find stock option contracts that are within budget and send email pre-market open on weekday mornings.
  - Highlighted trades are then further analyzed for validity to generate an average of 68% weekly profit over 9 weeks.

## Education

- August 2018–  
December 2021 **New York University**, *Tandon School of Engineering*, B.S. Computer Science, *GPA: 3.357*.  
Mathematics Minor
  - Relevant Coursework** Artificial Intelligence, Computer Systems Organization and Architecture (Verilog), Data Structures and Algorithms (Python, C++), Databases (SQL), Object Oriented Programming (C++), Machine Learning
- August 2016–  
May 2018 **Saint Augustine's University**, *59 Credits*, Business and Biology Concentration, *GPA: 3.897*.