Kori Vernon

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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report aggregation tool and dashboard for AMM DevOps Engineers to easily: load in, view, query, export, and delete outdated data to expedite the process to solve and resolve issues efficiently.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**, Ahïa 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, then connecting the front and back end of 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*.