

Kori Vernon

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Technical Skills

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

Experience

- February 2022–
Present **Technology Analyst**, *Reliability and Production Engineering (RPE)*, Automated Market Making (AMM), Morgan Stanley.
- Reliability and Production Engineer providing support for the Automated Market Making Team, creating tooling and building on existing infrastructure.
 - Implemented report aggregation tool and dashboard for AMM Developers to easily: load in, view, query, export, and delete outdated data to expedite the process to solve and resolve issues efficiently.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 and minority-owned small businesses in the Research Triangle Park and New York Metropolitan area.
 - 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 the application.
 - Dynamically created excel models (.xlsx documents) via the user interface.

Projects

- January 2022 **Tesla Fleet Management Application**, Python.
- Created a web application using Flask and the 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**, 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 Machines had a performance of 100% on our sample license plate (Crazy, I know, right?).
- 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 in Python to create an algorithm to find stock option contracts that are within budget and send me an email pre-market open on weekday mornings.
 - Highlighted trades are then further analyzed for validity.
 - Generated an average of 68% weekly profit for 9 weeks.

Education

- August 2018–
December 2021 **New York University**, *Tandon School of Engineering*, B.S. Computer Science, GPA: 3.357.
- Relevant
Coursework Mathematics Minor
- 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.