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report aggregation tool and dashboard for AMM Developers to easily: load in, view, query, export, and delete outdated data to expedite the process to solve and resolve issues efficiently.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**, Ahïa 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 2021 — **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 2021 — **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*.
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*.