

# Harrison O'Neal

(Contact info removed for public doc)

## Education

Georgia Institute of Technology | December 2022 | GPA: 3.0

B.S in Computer Science | Concentration Threads: Intelligence and Info/Internetworks

## Skills

Python, R, Java, SQL, Dot Net, Visual Basic, YAML, Git, Google Cloud, Azure, PowerBI, JIRA, Agile

## Experience

Software Engineer Intern | NCR | Atlanta, GA

05/2022 – 08/2022

- Designed a modular data classification system from the ground up from system architectural design to working coded product, providing in-depth documentation and research validation to the supervisor
- Integrated development team's analysis systems into an API pipeline for PowerBI visualizations
- Implemented time series prediction algorithms using R to forecast customer sales data
- Utilized forecast outputs to generate a Neural Network for improved classification results
- Produced a 32% increase in prediction accuracy over base prediction methods

Software Engineer | Spivey Advisory, LLC | Atlanta, GA

05/2020 – 08/2020

- Received and analyzed stock market prediction theories from senior market analysts
- Developed and tuned market prediction algorithms to result in better analysis and design
- Implemented data analysis algorithms into Azure and Microsoft Office using Python and Visual Basic
- Lead regular meetings with company executives to present findings in market analysis and inform of next line of theory to investigate and implement

Physics Learning Assistant | Georgia State University | Atlanta, GA

01/2019 – 12/2019

- Conducted weekly sessions leading 30 students through laboratory plans to teach physics principals
- Created lesson plans weekly and lead meetings with other student leaders to solidify their plans
- Mentored students on course material through visual demonstrations and clear verbal communication

## Projects

Hypixel Bazaar Forecasting | <https://github.com/hloneal/SB-Market>

03/2023 - Present

- Utilized GitHub Actions and Python scripting to regularly conduct API polling of current bazaar data
- Integrated the Google Cloud BigQuery API to upload the extracted data into a SQL data warehouse
- Performed data preparation, feature engineering, data forecasting, and profit estimation
- Engaged clear and visually appealing data visualizations to communicate findings and results
- Creating a centralized Dot Net (.NET) web app to streamline and integrate all aspects for efficiency