MAURICE "REECE" BERNARD

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30319 • U.S. Citizen

OBJECTIVE

Avid learner across multiple disciplines including data science, computer science, and finance. Pursuing experience involving programming, quantitative analysis, modeling and valuation, or risk management.

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY — **Atlanta, Georgia**
B.S. **Industrial and Systems Engineering** — *December 2020*
- Concentration: Data Science and Analytics — GPA: 3.7
- Minor in Computer Science – Computing and Intelligence Thread
- FIJI Gamma Tau chapter (Children's Healthcare of Atlanta)
- Transfer student from the University of Georgia - GPA: 4.0

RELAVENT COURSEWORK

- **Programming:** Machine Learning for Trading, Machine Learning, Data Structures and Algorithms, Computer Organization and Programming, Intro into AI, Data Input/Manipulation Database Systems, Discrete Mathematics
- **Analytics:** Optimization, Simulation, Machine Learning and Decision Making, Regression and Forecasting, Stochastic Manufacturing & Service Systems, Statistical Methods, Probability and Applications

EXPERIENCE

BLACKROCK
Analytics and Risk Portfolio Analytics Group Intern — *June 2020 – August 2020*
- Applied statistical techniques to real financial data and live portfolios to aid fund managers' real-time decision making
- Programmed a time series model to proactively detect high-risk funds not appropriately enabled for Sec Lending
- Developed an analysis tool, to visualize iShares TAP 2.0 growing popularity based on Total AUM and distinct iShares
- Built and delivered scalable solutions leveraging Aqua Data Studio and the Aladdin Data Sciences platform

FORTAMUS
Software and Development Coding Internship: Data and Integration Intern — *Jan 2019 – August 2019*
- Developed life insurance valuation methods in Python utilizing data vendors, Python, XML, Pandas and S3
- Managed private health datasets utilizing Pandas, NumPy, and S3 to keep valuation data clean
- Integrated multiple data vendors into our Valuer and Person web services to aid in gathering people's data
- Deployed web services utilizing Docker, Serverless, JavaScript, NPM, and AWS Lambda

STARBUCKS
GT Senior Design Consultant — *May 2020 – December 2020*
- Performed exploratory data analysis to better understand which factors influence Starbucks customers' consumption
- Designed a tool to determine the appropriate amount of cold food storage per store.
- Predicted to save Starbucks 125 million dollars a year in avoided food waste and returns.

GEORGIA TECH TEACHING ASSISTANT
Data Analytics and Security — *August 2020 – December 2020*
- Teaching students how to run their own exploratory data analysis on the famous Enron dataset.
- Teaching students how to perform data analysis on large data sets leveraging R and Python
- Selected as an undergrad to teach a graduate level class

Personal Projects

AUTONOMOUS PORTFOLIO OPTIMIZATION
- Automatically reallocate portfolio for optimization of Sharpe Ratio.
- Employed Monte Carlo Simulation to visualize the risk of the optimized portfolio.
- Utilized: Python, Alpaca, Scipy, Pandas, Numpy, Alpha-Vantage API

S&P500 AUTOTRADER
- Deployed a web app to automatically trade stocks that the algorithm deemed to be oversold
- Aimed to capture a profit using mean reversion by purchasing S&P500 stocks when a stock price was under its EMA
- Utilized: Python, Alpaca, Heroku, Pandas, Numpy

FIJI ROOM GAME
- Programmed an API that handles CRUD for room data in the FIJI fraternity house
- Utilized: NodeJS, NPM, Express 4, Mongoose, MongoDB, Postman

Skills

Programming: Python, Java, C, NodeJS **Analytics:** SQL, R, Excel, Tableau **Web:** HTML/CSS/JavaScript, Apex
Other Projects: Programmed a Sudoku game in Java, Built a smart mirror in Python using a Raspberry Pi