OWEN T. MCCADDEN

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EDUCATION

University of North Carolina at Chapel Hill – Chapel Hill, NC   May 2023
Bachelor of Science in Computer Science and Bachelor of Science in Economics
- GPA 3.87/4.00

Relevant Coursework
- Object-Oriented Programming, Data Structures, Discrete Structures, Multivariate Calculus, Financial Accounting
- (Spring 2021) Models of Language and Computation, Systems Fundamentals, Linear Algebra

SKILLS

Programming Languages: Java, Python, C, C++, JavaScript, HTML, CSS
Frameworks and Tools: AWS (S3, Lambda, DynamoDB, API Gateway), RESTful APIs, Pandas, NumPy, Matplotlib, SciPy
Certifications: Bloomberg Market Concepts, Udemy Python for Financial Analysis and Algorithmic Trading
Languages: Intermediate Spanish

EXPERIENCE

Principal Financial Group – Des Moines, IA   May 2021 – August 2021
Data Engineering Intern
- Will commence Summer 2021 internship focused primarily on cloud data management using AWS

University of North Carolina School of Nursing – Chapel Hill, NC   August 2019 – March 2020
Information Technology Assistant
- Analyzed and edited CSS files for the Nursing School Sakai site to reach compliance with accessibility standards
- Scheduled, compiled, and managed lecture recordings as an Echo 360 administrator
- Evaluated and solved walk-in hardware and software issues on 200+ student and staff devices

PERSONAL PROJECTS

Algorithmic Trading Interface (Python)   August 2020 – December 2020
- Developed a framework to design and implement algorithmic trading strategies using the Robinhood API
- Provided a feature to calculate and visualize expected changes in option prices using the Black-Scholes Model
- Designed an algorithm using this system to optimize the Sharpe Ratio of a portfolio using a Monte-Carlo simulation

Poker Game (Java)   December 2020 – January 2021
- Developed a full-functioning game of Five Card Stud Poker complete with a graphical user interface
- Utilized encapsulation to divide the program into abstractions such as card, deck, hand, and poker game classes

Stock Twitter Sentiment Analysis (Python)   December 2020 – January 2021
- Wrote a program to analyze Twitter sentiment for different stock tickers and compute average sentiment scores
- Built methods to compile sentiment and stock data into a Pandas data frame and export to a spreadsheet

SEC Filings Web Scraper (Python)   December 2020 – January 2021
- Designed a web scraper to pull data from financial statements and filings from SEC.gov for public companies
- Scheduled this web scraper to regularly monitor SEC.gov and update a spreadsheet with data on SPACs

Random Pattern Animations (JavaScript)   November 2019
- Created a webpage to display a gallery of randomly generated, dynamic Processing.js animations
- Applied stochastic processes and inverses to randomize the motion and features of the patterns

ADDITIONAL INFORMATION

- Member of Tarheel Alpha (a quantitative finance and trading club) and UNC Investment Banking Bootcamp
- Member of Undergraduate Finance Society, Carolina Analytics and Data Science, and Product Management Club
- American Legion Boy's State Participant and National Oratorical Contestant for Rhode Island
- Interests include lacrosse, chess, poker, and following college football and basketball