

Jack Palaia

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Education

Georgia Institute of Technology, Atlanta, GA

August 2019 – May 2023 (expected)

B.S. in **Computer Science**, GPA: **4.0/4.0**

Coursework: CS 1332 – Data Structures and Algorithms, CS 2050 – Discrete Math, MATH 1554 – Linear Algebra

Skills

Languages: JavaScript, Python (Pandas, NumPy, Scikit-learn, NLTK, etc.), TypeScript, Java, C/C++, SQL, HTML, CSS

Frameworks/Technologies: Node, React/Redux, Express, Django, Git, REST, Linux (Ubuntu), MongoDB, Docker, Jest

Experience

Georgia Tech Student Foundation, Atlanta, GA | Quantitative Analyst

December 2019 – Present

- Developed stock trading backtester in Python for testing trading strategies with team
- Researched and developed stock trading strategies utilizing price and volume data for stocks and options

Adventure Code Academy, Chelmsford, MA | Mentor

April 2018 – August 2018

- Collaborated with team members to organize introductory programming curriculum for students
- Mentored students in basic programming topics through Scratch

Massachusetts Youth Soccer, MA | Referee

May 2015 – Present

- Officiated high-level state and club level U8 - U18 soccer matches and tournaments
- Managed players, coaches, and parents under high pressure situations

Projects

[Stock Trading Backtester](#) | Developer

February 2020 – Present

- Developed backtesting platform for testing equity trading strategy performance using Python
- Utilized SPX put option open interest data to devise trading strategy that beat an SPX buy-and-hold strategy by 20% total (166% return vs. 146% return), backtested from May 2011 to August 2020
- Scraped equity price and options data from Yahoo Finance and Alphavantage APIs
- Manipulated price data using Pandas and NumPy Python libraries
- Visualized correlations and backtest results using Matplotlib and Scikit-learn Python libraries

[Lightweight Model Versioning Platform](#) | Developer

July 2020 – Present

- Developed a lightweight model versioning platform for neural networks and machine learning projects. Models can be tracked in a Git-like fashion, uploaded to a central repo and distributed to other users
- Implemented REST API with Django, implemented frontend client with React.js

[To-Do List](#) | Developer

June 2020

- Developed simple MERN stack web app for keeping track of daily activities
- Implemented frontend with React, REST API with Node.js and Express, and database with MongoDB and Mongoose
- Deployed with Heroku

Invitr | Android Developer

May 2019

- Headed frontend UX development to improve ease of use. Coordinated synchronization between frontend and backend teams to increase productivity of both teams. Coded frontend with XML and backend with Java.

Activities

Google Student Developer Club | Member, Developer

July 2020 – Present

- Contributed to multiple open-source projects such as LMVP and XAuth