

Anthony Kim

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EDUCATION

University of Maryland, College Park, Maryland

Bachelor of Science Computer Science

May 2023

GPA: 3.6

Honors College: University Honors

Coursework: Algorithms, Organization of Programming Languages, Data Science, Computer Systems, Object Oriented Programming, Database Systems, Machine Learning, Web Development in Javascript

EXPERIENCE

Software Engineer Intern

May 2022 – Aug 2022

Microsoft (Redmond, WA)

- Refactored **VS Code Python Extension's** Unittest integration
- Made Unittest **execution** with **debugger** possible in VS Code Python extension by implementing test agnostic adapters, allowing socket-based **JSON RPC** communication, and updating the VS Code UI by leveraging VS Code APIs, after customized backend processing in **TypeScript** and **Python** (<https://github.com/microsoft/vscode-python/pull/19386>)
- Fixed an issue with the new Unittest **discovery** not discovering all the test cases in the workspace (<https://github.com/microsoft/vscode-python/pull/19324>)
- Investigated and wrote hook functions for **Pytest Plugin** support of the VS Code Python extension

PROJECTS

Analysis of Earnings Per Share on Stock Price

June 2021 – July 2021

- Built a data science pipeline analyzing correlation between EPS and stock prices using **Python**
- Scraped and analyzed company financial data using **Pandas**, **Matplotlib**, and **Yahoo Finance API**
- Performed hypothesis testing, fitted linear regression, and ML analysis using **Sklearn** and **Scipy.stats**

Real Time Cryptocurrencies Price Tracker

May 2021 – Aug 2021

- Implemented **iOS** application that displays real time prices and icons for Cryptocurrencies
- Leveraged Coinbase API, MVVM, UITableView, and custom UITableViewCells.

Red-Blue-Green EMA Strategy

January 2020

- Designed and back-tested stock trading strategies using **pandas**, **numpy**, and **yfinance**
- Achieved returns of **399.4%** over 7 trades from January 2018 to 2020 using 10K, 10Q, and technical analysis including mean reversion, VWAP, MACD, RSI, DMI, EMA, etc.

iPhone Image Detector

October 2019

- Leveraged Apple's **Core ML** Models to classify dominant object from camera and announce using text-to-speech
- Technologies used: Resnet50 (residual neural network), SqueezeNet (small deep neural network architecture), **AVKit**, **AVFoundation**, **Swift**, **Cocoa Touch**

ADDITIONAL

- **Technical:** Java, JavaScript, TypeScript, Swift, Python, C, UNIX, MS SQL, Xcode, Jupyter Notebook, Git