
Education

Rutgers University School of Arts and Sciences Honors Program, Dec. 2019

Bachelors of Science in Cognitive Science and Computer Science, GPA: 3.7/4.0

Activities & Awards: Rutgers Student Managed Fund, 1st Place PwC Consulting Challenge

Employment

CommVault (CVLT) Intern, Tinton Falls, New Jersey

Summer, 2015

Data management, protection (security and disaster recovery), backup, and cloud storage company

- **Fully developed** a Mac application to quickly and securely back up an **entire computer** or certain directories to the cloud, listen and then upload file modifications, and handle filters
- **Devised a dynamic scanning algorithm** that takes into account the number of directories and subdirectories to determine an efficient number of scanning threads to create

Javelin Capital Markets, LLC., New York, New York

Summer, 2014

Swap Execution Facility for Interest Rate Swaps (debt instruments with \$1,000,000 min. value)

- Developed a program to efficiently stream thousands of quotes per second across a network to multiple Excel spreadsheets for price modeling. **(30% time reduction)**
 - Built 4 automated testing systems to continuously test various trading features under different conditions. **(tests 10 different platform features)**
 - Helped switch system from FixML to FPML for validating trades with CMEX & LCH
 - Implemented backend for executing Butterfly Swap trades using the C.L.O.B.
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Projects

Stock Calculator, Android Application and Java GUI

2013

Uses an algorithm I wrote to determine whether a stock's price will increase in the future.

- The algorithm downloads and takes into account the company's P/E ratio, Beta, Income Statement, Balance Sheet, Cash Flow, and historical trading data.

Facebook Message Analyzer, Android Application

2014

Analyzes a user's last 5000 Facebook messages in both private chats and group messages

- Shows most used words, average response time, and average message length
- Analyzes how people respond in a group chat (time & length of reply) based on gender

Bring Me Food, Android and iOS Application

2014 - 2015

A refined version of Uber for crowd-sourcing the delivery of food.

- Client chooses menu items from a restaurant and a notification is sent to drivers in the area, who can then claim the order and send delivery status updates

Facebook Analyzer, iOS Application

2015

Analyzes a user's posts and photos to determine statistics about their usage and their 'friends'

- Ranks friends based on their number of likes and comments, and how their actions changed overtime, similar to how friendships change overtime.
 - Takes into account post-per-month variation and when friendships began on Facebook
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Languages & Technologies

- **Experienced:** Objective-C (Cocoa & iOS), Java (proficient in all paradigms), Python, Android
- **Advanced:** SQLite (CTE statements), JavaScript (NodeJS & Parse), C, Bash, Vim, Git