

## 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, 1<sup>st</sup> Place PwC Consulting Challenge

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## 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.

**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

**iMessage Analyzer**, Mac Application

*2015*

Analyzes all of a user's messages from the database on the computer

- Shows how friendships and texting habits change over time
- Predicts how likely you are to text a person based on the time and when they were last contacted. Auto-generated replies (Machine learning – decision trees)

**Tinder Bot**, Python script

*2015*

A Tinder bot that does the swiping for you

- Uses OpenCV to identify the face and certain facial components, and a neural network to predict swipes based off of facial components ie. hair/eye color
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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