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## Employment

### **CommVault (CVLT)** Tinton Falls, New Jersey

*Software Engineering Intern, 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
- **Dynamic scanning algorithm** 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

*Software Engineering Intern, 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 several automated testing systems to continuously test various trading features under different conditions. **(4 tests built that test 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 (Current and Past)

### **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 word and sentence 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 enroute to the client's location

### **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

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## Education

- '19 School of Arts and Sciences Honors Program, Rutgers University, New Jersey
- Bachelors of Science in Cognitive Science and Computer Science