

Jonathan Ma

PRODUCT MANAGER · COMPUTER SCIENCE AND STATISTICS MAJOR

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About Me

Programming C++/C · Python · NodeJS · Bash · Go

Analytics R · SQL · Excel/VBA · Matlab · Tableau

Web/Media Express · Django · Flask · Python · HTML/CSS/Javascript · Photoshop · Premiere Pro

Internship

Microsoft

Redmond, WA

PROGRAM MANAGER - WINDOWS SERVER SECURITY TEAM

May. 2016 - Aug. 2016

- Owned and designed an IT security product based on shielded Virtual Machine technology that lets organizations easily deploy privileged access workstations
- Implemented multiple iterations of the prototype and presented them to potential customers
- Wrote product specs to work with developers and designers on the development of the product

Facebook

Menlo Park, CA

DATA SCIENTIST - GROUPS TEAM

Sep. 2015 - Dec. 2015

- Presented multiple analysis on time spent in Groups while recommending product features and team core metric goals
- Worked with Group growth team on Highlight Notifications improve audience targeting to increase click-through rate
- Led the Click Pacing project for Highlights and analyzed experiments to propose strategies
- Built data pipelines and dashboards for future analysis on time spent

LinkedIn

Mountain View, CA

SOFTWARE ENGINEER - GRAPH TEAM

Jan. 2015 - Apr. 2015

- Designed and implemented query persistence on the new generation graph database that would be the core of the Economic Graph
- Analyzed performance on our query processor to find bottlenecks
- Developed a framework around Norbert and Kafka to test for correctness on new builds in our distributed systems

Citadel

Chicago, IL

FINANCIAL TECHNOLOGY ASSOCIATE - OPTIONS TEAM

Jun. 2014 - Aug. 2014

- Developed in C++, a high performant multithreaded WebSocket server serving all the traders' browser to replace an existing C++ GUI
- Improved performance from the old GUI by using low lock times, non-blocking I/O, async events and caches

Project

Predictions Trading Bot

- Wrote a bot in Python to trade DJI/Gold/Silver contracts using Black-Scholes binary option pricing

Nessie: Key-Value Store using RDMA

- Implemented features in the paper and wrote applications on top of Nessie as a Research Assistant

Bloombuzz

- Won first place for Pagerduty API during Hack the North with a real time stock monitoring app

Rotman International Trading Competition

- Developed quantitative strategies and applied them during the competition against undergraduate and graduate students from schools around the world

Education

University of Waterloo

Waterloo, ON

HONOURS B.MATH IN COMPUTER SCIENCE AND STATISTICS

Sep. 2012 - PRESENT

- Dean's Honours List: 92% Average