

Michael Usachenko

910 S. 3rd Street, Champaign, IL, 61820

☎ (224) 632-0630 | ✉ me2@illinois.edu | 🌐 themichaelusa | 📷 michaelusa

UIUC CS Freshman passionate about investment; pursuing summer internship in Data Science & Quantitative Finance.

Education

University of Illinois

Champaign, IL

B.S. IN COMPUTER SCIENCE AND STATISTICS

Aug. 2016 - PRESENT

- Relevant Coursework: Intro to Computer Science, Discrete Structures, Software Design Studio, Calculus II, Biostatistics
- Member of Association for Computing Machinery (ACM)

Adlai E. Stevenson High School

Lincolnshire, IL

GRADUATED SUMMA CUM LAUDE

Aug. 2012 - Jun. 2016

- President and Executive Board Member of VEX Robotics Team
- Awards: AP Scholar With Distinction and AP + PLTW Student Achievement in Engineering

Experience

National Center for Supercomputing Applications

Champaign, IL

UNDERGRADUATE RESEARCHER (LIGO GROUP)

Feb. 2017 - PRESENT

- Utilized Python for time series analytics to extract waveform polarization data and imagery from binary black hole mergers.
- Employed Campus Cluster to run numerical relativity simulations and test a new automated infrastructure for Einstein Toolkit.
- Investigated uses of Deep Convolutional Neural Networks to model spin-precessing binary black holes with Mathematica.

Adler Schwartz, LLC

Hawthorn Woods, IL

CO-FOUNDER AND OPTIONS LEAD

Aug. 2016 - PRESENT

- Co-founded Proprietary Trading firm with a focus on algorithmic financial derivative trading.
- Developed and back-tested technical analysis algorithms with the Quantopian API for FY2016 Portfolio.
- Applying Deep Recurrent Neural Network to produce robust buy/sell signals for FY2017 Portfolio.
- 2016 Options Portfolio Return Rate (as of 12/31/2016): 68.2%

Extracurriculars & Projects

Realtime TA-Lib

Champaign, IL

CREATOR & DEVELOPER

Jan. 2017 - PRESENT

- Designed lightweight Python library that parses Google/Yahoo Finance JSON data real-time.
- Implemented accurate and live TA-Lib indicator generation, formatting on-the-fly.
- Built free, reliable, and fast data pipeline of historical and live ticker data for use in backtesting algorithms/ML.
- Saves users potential \$500,000 each by providing an open-source alternative to the TD Ameritrade API's real time signals feed.

HackIllinois

Champaign, IL

ORGANIZER & OPENING CEREMONY LEAD

Sep. 2016 - PRESENT

- Directed logistical operations regarding the opening and closing ceremonies of HackIllinois.
- Planned livestreaming infrastructure for panels and hands-on workshops.

Skills & Interests

Professional	Team Leadership, Handling Pressure/Deadlines, Problem Solving
Languages	Python, R, Java, Arduino, Russian
Software	Mathematica, Autodesk Inventor, Sketch.app
Interests	E-Mini Futures, Tinkering, DnD