

Michael Usachenko

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UIUC CS Sophomore passionate about building useful tools for Fintech applications; pursuing internship in Software Engineering.

Education

University of Illinois

B.S. IN COMPUTER SCIENCE AND STATISTICS

Champaign, IL

Aug. 2016 - PRESENT

- Relevant Coursework: Discrete Structures, Data Structures, Computer Architecture, Calculus III, Biostatistics
- Member of Association for Computing Machinery (ACM)

Experience

Department of Industrial and Enterprise Systems Engineering

Champaign, IL

UNDERGRADUATE RESEARCHER (FINANCIAL ENGINEERING)

Aug. 2017 - PRESENT

- Modeling optimal European Call/Put valuation with the Binomial Tree pricing method in Python.
- Applying Monte Carlo simulations to approximate values of Exotic & American Options.

National Center for Supercomputing Applications

Champaign, IL

UNDERGRADUATE RESEARCHER (LIGO GROUP)

Feb. 2017 - Sep. 2017

- Utilized Python for time series analytics to extract waveform polarization data and imagery from binary black hole mergers.
- Investigated uses of Deep Convolutional Neural Networks to model spin-precessing binary black holes with Mathematica.

Extracurriculars & Projects

Trinitum

Champaign, IL

CREATOR & DEVELOPER

May. 2017 - PRESENT

- Built algorithmic cryptocurrency trading system in Python from scratch.
- Implemented a RethinkDB instance for real-time position caching and seamless spot data delivery to the user.
- Reduced barrier to entry for algo trading from 3 months of backend to 10-20 lines of code total.

Realtime TA-Lib

Champaign, IL

CREATOR & DEVELOPER

Jul. 2017 - PRESENT

- Released Python 3.6 library on PyPi for generating live technical indicators for OHLCV data.
- Enables end-user savings of thousands by providing open-source alternative to professional trading data API's.

54.io

Champaign, IL

OPERATIONS ORGANIZER

Jul. 2017 - PRESENT

- Compiled low-cost supplies budget and generated attendee swag ideas under a tight allowance of funds.
- Engaged in correspondence with Siebel Center and Illini Union event management to acquire 54 venue.

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

Languages Python (Expert), Java (Proficient), C++ (Beginner), Russian (Native)

Software Mathematica, Autodesk Inventor, Sketch.app

Interests Momentum Trading, Tinkering, DnD