

# Aaron Lichtman

SECURITY FOCUSED · SOFTWARE ENGINEER

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## Education

### University of Illinois at Urbana-Champaign

B.S. IN COMPUTER SCIENCE AND LINGUISTICS

*Champaign, IL*

*Expected May 2020*

- GPA: 3.74/4.00
- Coursework: Discrete/Data Structures, Computer Architecture, Systems Programming, VR, Computational Linguistics.

## Experience

### iOS Software Engineering Intern

WAYFAIR

*Boston, MA*

*Summer 2018*

- Worked on a team developing an iMessage extension in Swift and integrating it into the Wayfair iOS app.
- Improved the product sharing experience for over 210,000 daily iOS users.
- Lead the Community Coding Day event and wrote a curriculum to teach 200+ middle schoolers basic CS concepts.

### Course Infrastructure Developer

UNIVERSITY OF ILLINOIS - COLLEGE OF ENGINEERING

*Champaign, IL*

*Jan. 2018 - Present*

- Developed plagiarism detection software that applies machine learning to code metrics and behavioral indicators.
- Gained proficiency in the ANTLR and NLTK libraries, using them to effectively analyze natural language and parse source code.
- Final product used by the UIUC CS department as a replacement for the previous state of the art software (MOSS, 1994.)

### Lab Instructor - Intro to Computer Science

UNIVERSITY OF ILLINOIS - COLLEGE OF ENGINEERING

*Champaign, IL*

*Aug. 2017 - Dec. 2017*

- Taught fundamentals of Java programming, algorithm analysis, and data structures in weekly two-hour lab sections.
- Worked one-on-one with students during office hours, and moderated course forum.
- Helped struggling students succeed in the course and develop a deeper understanding of computer science.

## Open Source Software

### Stronghold

DEVELOPER-FRIENDLY MACOS SECURITY CONFIGURATION TOOL

*Champaign, IL*

*2018*

- Developed a command line interface that guides users through step-by-step secure configuration for macOS.
- Secured the workstations of over 5000 mac users, and earned over 250 stars on GitHub.
- Gained familiarity with macOS security architecture.

### Bitvision

BITCOIN TRADING AND CHARTING SOFTWARE THAT USES ML TO FORECAST PRICE MOVEMENTS

*Champaign, IL*

*2018*

- Implemented a text analysis pipeline to analyze the sentiment of Bitcoin-related headlines for an automated trading algorithm.
- Designed and built a user interface for the automated trading engine.
- Wrote web scrapers for several popular news websites.

### Typesense

CHROME EXTENSION TO MEASURE TRENDS IN SENTIMENT OF MESSENGER CONVERSATIONS

*Champaign, IL*

*2018*

- Built a REST API using Flask that connected to a MongoDB database.
- Implemented sentiment analysis using the VADER library.

## Honors & Awards

2018 **Best Healthcare-related OSS Hack (TypeSense)**, HackIllinois

*Champaign, IL*

2017, 2018 **Dean's List**, University of Illinois

*Champaign, IL*

## Skills

**Proficient** Python, Swift, C++, Java (incl. Android), Git, JetBrains IDEs, XCode.

**Familiar** C, HTML, CSS, Javascript (web and node.js), Sketch.