Aaron **Lichtman**

SECURITY FOCUSED · SOFTWARE ENGINEER

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Education

University of Illinois at Urbana-Champaign   *Champaign, IL*

B.S. IN COMPUTER SCIENCE AND LINGUISTICS   *Expected May 2020*

- GPA: 3.74/4.00
- Dean's List: 2017, 2018
- Coursework: Discrete/Data Structures, Computer Architecture, Systems Programming, VR, Computational Linguistics.

Experience

iOS Software Engineering Intern   *Boston, MA*

WAYFAIR   *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   *Champaign, IL*

UNIVERSITY OF ILLINOIS - COLLEGE OF ENGINEERING   *Jan. 2018 - Present*

- Developing 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.
- Researching future plagiarism detection system improvements.

Lab Instructor - Intro to Computer Science   *Champaign, IL*

UNIVERSITY OF ILLINOIS - COLLEGE OF ENGINEERING   *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   *Champaign, IL*

DEVELOPER-FRIENDLY MACOS SECURITY CONFIGURATION TOOL   *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   *Champaign, IL*

BITCOIN TRADING AND CHARTING SOFTWARE THAT USES ML TO FORECAST PRICE MOVEMENTS   *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 using Blessed.js.
- Worked with another developer to integrate the Python backend with the Javacsript frontend.

Typesense   *Champaign, IL*

CHROME EXTENSION TO MEASURE TRENDS IN SENTIMENT OF MESSENGER CONVERSATIONS   *2018*

- Won best Healthcare related hack at HackIllinois 2018.
- Wrote a rolling window algorithm that analyzes change in sentiment over a set of messages using the VADER library.

Skills

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

Familiar   C, HTML, CSS, Node.js, Sketch.