

# Aaron Lichtman

BUSINESS MINDED · SOFTWARE DEVELOPER

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## Education

### University of Illinois at Urbana-Champaign

B.S. IN COMPUTER SCIENCE AND LINGUISTICS

*Champaign, IL*

*Expected May 2020*

- Business Minor
- 3.74/4.00 GPA
- 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 and integrating it into the Wayfair iOS app.
- Created an intuitive product sharing experience for over 210,000 daily users on the iOS platform.
- Learned about interface design, security, and performance optimization in production systems.

### Course Infrastructure Developer — Poirot Plagiarism Detection Software

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.

## Extracurriculars and Projects

### Stronghold

OPEN SOURCE SOFTWARE - GITHUB

*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 200 stars on GitHub.
- Gained significant knowledge about macOS security architecture.

### Shallow-Backup

OPEN SOURCE SOFTWARE - GITHUB

*Champaign, IL*

*2018*

- Developed a utility to compress package manager libraries to simple text files and recreate the environment from those text files.
- Used by over 1000 developers to minimize system backup size.

### Foreign Exchange Programs

FOREIGN EXCHANGE STUDENT AND HOST

*San Sebastian, Spain*

*Summers 2013-2017*

- Lived with a family in San Sebastian, Spain, for three summers and learned Spanish at an immersion language academy.
- Hosted multiple exchange students from Spain during high school and taught them about American culture.
- Traveled through Israel on Birthright and private trips.

## Honors & Awards

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

*Champaign, IL*

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

*Champaign, IL*

2016 **AP Scholar with Distinction**, Highland Park High School

*Highland Park, IL*

## Skills

<b>Development Skills</b>	Data structures, code optimization, algorithms, UI/UX design, software testing, debugging.
<b>Languages</b>	Python, Swift, C, C++, Java (incl. Android), HTML, CSS, Javascript (web and node.js).
<b>Software</b>	Git, JetBrains IDEs, XCode, Sketch.