Aaron **Lichtman**

BUSINESS MINDED · SOFTWARE DEVELOPER

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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
- 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 and integrating it into the Wayfair iOS app.
- Created an intuitive product sharing experience for over 210,000 daily users on the iOS platform.
- Applied interface design, security, and performance optimization principles in production code.

Course Infrastructure Developer — *Champaign, IL*
UNIVERSITY OF ILLINOIS - COLLEGE OF ENGINEERING — *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 — *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.

Extracurriculars and Projects

Stronghold — *Champaign, IL*
OPEN SOURCE SOFTWARE — *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.

Bitvision — *Champaign, IL*
OPEN SOURCE SOFTWARE — *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.

Foreign Exchange Programs — *San Sebastian, Spain*
FOREIGN EXCHANGE STUDENT AND HOST — *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

Comfortable   C, HTML, CSS, Javascript (web and node.js), Sketch.
Proficient   Python, Swift, C++, Java (incl. Android), Git, JetBrains IDEs, XCode.