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*

- Business Minor
- 3.74/4.00 GPA
- 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.
- Learned about interface design, security, and performance optimization in production systems.

Course Infrastructure Developer — Poirot Plagiarism Detection Software   *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 - GITHUB   *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   *Champaign, IL*
OPEN SOURCE SOFTWARE - GITHUB   *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   *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

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