

# Henry Chen

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Seeking an internship/co-op for the fall or winter of 2019.

## EDUCATION

**University of Maryland, College Park**, *B.S. Computer Science. Minor Statistics.* expected May 2020

Computer Science Departmental Honors | Presidential Merit Scholar | College Park Scholars: Public Leadership

- Relevant coursework: Design & Analysis of Algorithms (CMSC451), Data Science (CMSC320), Linear Algebra (MATH461), Statistics and Probability (STAT401), Probability Theory (STAT410)
- GPA: 3.85/4.00, ACT: 36/36

**Capital One Summit Challenge 2017** One of 40 students nationwide invited to the Capital One SWE Summit for W18

**MedHacks 2017** Top 15 at the Johns Hopkins Medical Hackathon; built a pill side-effect tracker

## SKILLS

**Languages** Java, Python, JavaScript, Ruby, C, OCaml, Swift, Rust, Assembly (MIPS), SQL, HTML/CSS, MATLAB

**Technologies** Git, Unix, React, Angular, D3.js, Firebase, Node.js, pandas, NumPy, scikit-learn, Jupyter, Docker

## EXPERIENCE

**Microsoft**, *Software Engineering Intern*, Redmond, WA. May 2019 - Aug 2019

- Incoming SWE Intern on Microsoft Azure; will be working on API Management.

**Capital One**, *Software Engineering Intern*, College Park, MD. Sept 2018 - Dec 2018

- Restructured the Capital One Events app realtime database to support multiple events concurrently in Firebase.
- Developed an administrative dashboard to manage event information, built with React and Firebase.
- Will continue as a part time intern in Spring 2019

**University of Maryland**, *Teaching Assistant*, College Park, MD. Aug 2018 - Dec 2018

- Host office hours and tutor for Algorithms (CMSC351) and Organization of Programming Languages (CMSC330).
- Teach students algorithm concepts like runtime analysis, graph theory, and computational complexity theory.
- Teach students programming language concepts like functional programming, security, and memory management.

**Karsun Solutions**, *Software Engineering Intern*, Herndon, VA. June 2018 - Aug 2018

- Developed a transactional data repository for the GSA to modernize reporting federal contract sales.
- Rebuilt jQuery front-end pages in Angular, increasing page speed by an average of ~175%.
- Updated RESTful APIs in Java, noticeably improving page load times.
- Implemented 4 core features across 7 pages ready for deployment and/or pushed to production.

**National Institute of Standards and Technology**, *Research Intern*, Gaithersburg, MD. June 2016 - Aug 2016

- Assisted in publicizing *What's a Special Character Anyway? Effects of Ambiguous Terminology in Password Rules*, paper presented at the 2016 Human Factors and Ergonomics Society Annual Meeting.
- Created Java software to analyze data sets of 8,000+ passwords and output them for data visualization purposes.
- Used the D3.js library to automate data visualization, used by NIST researchers to condense and conceptualize study data.

## PROJECTS

**Chatarang**, ([chatarang-6f769.firebaseio.com](https://chatarang-6f769.firebaseio.com)) June 2018

- A slack-clone created with React.js and Aphrodite on the front-end and Firebase for the back-end.
- Created as part of a selective 3-week intensive training course (Xtern Bootcamp) hosted by TechPoint.

**WordNet** Feb 2018

- A natural language processing tool built in Ruby that represents a lexical database for the English language.
- Creates graph of related words and concepts (hypernyms and synsets) with a command-line interface.

**Air List**, ([air-list.herokuapp.com](https://air-list.herokuapp.com)) Oct 2017 – Nov 2017

- A web app that analyzes San Francisco Airbnb data to visualize hosting cost, investment return, and district popularity.
- Created with JavaScript and Node.js for data parsing and analysis.