

# Henry Chen

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Seeking an internship for the spring, summer, or fall of 2019.

## EDUCATION

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

- Relevant coursework: Design & Analysis of Algorithms (CMSC451), Data Science (CMSC320), Linear Algebra (MATH461), Statistics and Probability (STAT401)
- GPA: 3.97/4.00

<b>Computer Science Departmental Honors</b>	Top 4% of undergraduate majors, exploring different areas of research
<b>Capital One Summit Challenge 2017</b>	One of 40 students nationwide invited to the Capital One SWE Summit for W18
<b>MedHacks 2017</b>	Top 15 at the Johns Hopkins Medical Hackathon; built a pill side-effect tracker
<b>ACT</b>	36/36

## SKILLS

**Languages**     Java, Python, JavaScript, Ruby, C, OCaml, HTML/CSS, Swift, Assembly (MIPS), Rust, SQL, MATLAB  
**Technologies**     Git/GitHub, Linux/Unix, React, Angular, D3.js, Firebase, Node.js, pandas, NumPy, Jupyter, Docker

## EXPERIENCE

**Capital One**, *Software Engineering Intern*, College Park, MD. Sept 2018 - Dec 2018  
• Capital One Technology Incubator; working on the Capital One Events app, built with Flutter and Firebase.

**University of Maryland**, *Teaching Assistant*, College Park, MD. Aug 2018 - Dec 2018  
• Host office hours and tutor for CMSC351 (Algorithms) and CMSC330 (Organization of Programming Languages).

**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.  
• Recreated 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**, *Software Engineering 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 Airbnb data from San Francisco to estimate and visualize hosting cost, investment, and district popularity.  
• Created with JavaScript and Node.js for data parsing and analysis.

**Freebie Magnet**, ([freebiemagnet.github.io](https://freebiemagnet.github.io)) Oct 2017  
• A web app that links users to nearby free events and giveaways; allows organizations to log in and add events.  
• Created with JavaScript and Firebase for OAuth 2.0 login authentication.