

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

Computer Science Departmental Honors Top 4% of undergraduate majors, exploring different areas of research

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

ACT 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) 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) 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) 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.