Henry Chen

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Seeking an internship for the fall of 2019.

EDUCATION

University of Maryland, College Park, *B.S. Computer Science, Departmental Honors. Statistics Minor.*   expected May 2021
- Relevant coursework: Data Structures, Design and Analysis of Algorithms, Machine Learning, Data Science, Computer Systems, Linear Algebra, Probability Theory, Applied Probability and Statistics
- GPA: 3.85/4.00, ACT: 36/36

EXPERIENCE

Microsoft, *Incoming Software Engineering Intern*, Redmond, WA.   May 2019 - Aug 2019
- Will work with the C & AI team on API Management for Azure.

Capital One, *Software Engineer (Contract)*, College Park, MD.   Sept 2018 - Present
- Working remotely on the Events app with the flagship Android team.
- Designed a Firebase Realtime Database to support concurrent events through unique access keys.
- Developed an admin dashboard in React, allowing event organizers to manage app information through dynamic forms.

University of Maryland, College Park, *Teaching Assistant*, College Park, MD.   Aug 2018 - Present
- Spring 2019: Currently teach CMSC351 (Algorithms) under Professor Kruskal.
- Fall 2018: Taught CMSC330 (Organization of Programming Languages) and CMSC351 (Algorithms).

Karsun Solutions, *Software Engineering Intern*, Herndon, VA.   June 2018 - Aug 2018
- Worked on creating a transactional data repository for the GSA to digitize management of federal contract sales.
- Rebuilt jQuery front-end pages in Angular and updated RESTful APIs in Java, improving load times by ~175%.
- Implemented 4 core features (File Upload, Form Entry, Search, Payments) across 7 pages and pushed to production.

National Institute of Standards and Technology, *Research Intern*, Gaithersburg, MD.   June 2016 - Aug 2016
- Worked on a paper studying the effects of password requirements on password generation, presented at 2016 HFES.
- Created Java software to analyze data sets of 8,000+ passwords and output analysis in spreadsheet and CSV form.
- Wrote data visualization scripts using D3.js to condense and conceptualize study data.

SKILLS

Languages	Java, Python, JavaScript, Ruby, C, OCaml, SQL, HTML/CSS
Technologies	Git, Unix, React, Angular, D3.js, Firebase, Node.js, pandas, NumPy, scikit-learn, Jupyter, Docker

PROJECTS

Chatarang, *chatarang-6f769.firebaseapp.com*   June 2018
- A full-stack Slack clone created with React, Aphrodite, and Firebase.

Air List, *air-list.herokuapp.com*   Nov 2017
- Winner of Capital One's Summit Challenge; top 40 out of 400+ applicants.
- Built a web app that visualizes various Airbnb hosting metrics (Cost, District Popularity, District Investment) in SF.

MedLog, *devpost.com/software/medlog-efish2*   Sept 2017
- Winner of MedHacks 2017 (Wolfram Alpha Award), the annual Johns Hopkins medical hackathon.
- Built a prototype app that tracks a user's medication/pills with photo-recognition and identifies potential side-effects.