

HENRY CHEN

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EDUCATION

University of Maryland

College of Computer, Mathematical, and Natural Sciences
Bachelor of Science, Computer Science, and Statistics Minor

College Park, MD
Cumulative GPA: 3.97
Expected May 2020

Departmental Honors, Computer Science

August 2018 – Present

- Top 4% of undergraduate majors, exploring different areas of research in computer science

Public Leadership Program, College Park Scholars

August 2017 – Present

- Manage fundraising and advocacy to improve high school graduation rates in Prince George's County Public Schools

Top Performer, Capital One SWE Summit Challenge

November 2017

- One of 40 students nationwide invited to the Capital One SWE Summit for Winter 2018 after their MindSumo challenge

Wolfram Alpha Award, MedHacks 2017

September 2017

- Placed top 15 in the Johns Hopkins Medical Hackathon with an app that identifies pills to warn users of potential side effects

SKILLS

Advanced in: Java, Python, C, JavaScript (React, Angular, D3, Node.js), OCaml, Ruby, Swift, MATLAB, HTML/CSS (Bootstrap)

Familiar with: Assembly (MIPS), Rust, SQL

WORK EXPERIENCE

Capital One

College Park, MD

Software Engineering Intern

September 2018 – December 2018

- Incoming software engineering intern at Capital One Technology Incubator

University of Maryland

College Park, MD

Teaching Assistant

August 2018 – December 2018

- Teaching assistant for CMSC351 (Algorithms) and CMSC330 (Organization of Programming Languages)

Karsun Solutions

Herndon, VA

Software Engineering Intern

June 2018 – August 2018

- Developed a transactional data repository for the GSA to modernize reporting federal contract sales
- Recreated jQuery front-end pages in Angular and updated REST APIs in Java
- Completed 4 features and 7 screens ready for deployment, with one already pushed to production
- Participated in Agile development process and demoed features to product owners and company leadership

National Institute of Standards and Technology

Gaithersburg, MD

Software Engineering Intern

June 2016 – August 2016

- Assisted in publicizing *What's a Special Character Anyway? Effects of Ambiguous Terminology in Password Rules*
- Designed and created Java software to analyze data sets of over 8,000 passwords
- Programmed JavaScript scripts to automate data analysis using the D3 library
- Used by NIST researchers to condense and conceptualize study data

PROJECTS

Chatarang (<https://chatarang-6f769.firebaseio.com/>)

June 2018

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

WordNet

February 2018

- Implemented a WordNet (lexical database for English) in Ruby
- Used regex to validate file input, then stores and tracks synsets and respective hypernym relationships with a graph

Air List (<https://air-list.herokuapp.com/>)

October 2017 – November 2017

- Web app analyzes Airbnb data from San Francisco to estimate and visualize hosting cost, investment, and popularity
- Created with JavaScript and Node.js for parsing and analysis

Freebie Magnet (<http://freebiemag.net/>)

October 2017

- Web app links users together by tracking nearby free events and giveaways, allows organizations to log in and add events
- Created with JavaScript and Firebase for OAuth 2.0 login authentication