

# HENRY CHEN

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## EDUCATION

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### University of Maryland

College of Computer, Mathematical, and Natural Sciences  
*Bachelor of Science, Computer Science 4.0/4.0*  
*Bachelor of Science, Statistics N.A/4.0*

College Park, MD  
Cumulative GPA: 3.94  
Expected May 202X  
ACT: 36/36

### Public Leadership, College Park Scholars

August 2017 – Present

- In the Education group; managing fundraising and advocacy to help 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

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Languages: Proficient in Java, C, JavaScript (D3, Node.js, Firebase), HTML, CSS, Ruby; Functional in Python, Assembly (MIPS), SQL, OCaml

Software: Eclipse, IntelliJ, LaTeX, Microsoft Excel & PowerPoint, Adobe Photoshop

## WORK EXPERIENCE

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### National Institute of Standards and Technology (<https://github.com/usnistgov/PasswordVizTool/>)

Gaithersburg, MD

#### IT Laboratory Summer Intern

June 2016 – August 2016

- Assisted in publicizing *What's a Special Character Anyway? Effects of Ambiguous Terminology in Password Rules*
- Analyzed data sets of over 8,000 passwords to examine the correlation between password requirements and complexity
- Developed 1600 lines of software in Java and the JavaScript D3 library to automate password analysis and data visualization, used by NIST researchers to condense and conceptualize data

### Private Tutor

Rockville, MD

#### Afterschool Tutor

September 2014 – September 2016

- Tutored high school student for ~5 hours a week; helped with homework, tests preparation, and class participation
- Resulted in increased overall grade performance - C student to B student

## PROJECTS

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### 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
- Developed 800 lines of code in JavaScript/Node.js for real-time back-end 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
- Used JavaScript and Firebase

### Visual Python Explosion Simulator

May 2017

- Simulates an explosion from where the user clicks onto a cube of particles with customizable mass, force, and gravity
- Used VPython (Python with Visual, a 3D graphics module) for particle generation, animations, and calculations

## LEADERSHIP EXPERIENCE

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### Association for Computing Machinery, *President*

February 2018 – Present

- Plan and organize chapter activities for 60 members alongside fellow officers

### Terrapin Hackers, *Marketing Team*

February 2018 - Present

- Improve organization outreach, web presence, and maintain the Terrapin Hackers newsletter

### Potomac Chinese School, *Teacher Assistant*

September 2014 – June 2016

- Assisted teachers with grading and managing young students
- Helped coordinate school-wide community competitions and events with hundreds of participants