HENRY CHEN

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EDUCATION

University of Maryland   College Park, MD
College of Computer, Mathematical, and Natural Sciences   Cumulative GPA: 3.97
Bachelor of Science, Computer Science, Major GPA: 4.0/4.0   Expected May 2020
Bachelor of Science, Statistics, Major GPA: 4.0/4.0   ACT: 36/36

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 (D3, Node.js, Firebase, React), OCaml, Ruby, Swift, MATLAB, HTML/CSS (Bootstrap)
Familiar with: Assembly (MIPS), Rust, SQL
Software: Eclipse, IntelliJ, LaTeX, Logism, Arduino

WORK EXPERIENCE

Karsun Solutions   Herndon, VA
Software Engineering Intern   June 2018 – August 2018
- Incoming summer intern, will be working on GoLean.io (an Agile productivity app) with Angular

National Institute of Standards and Technology (https://github.com/usnistgov/PasswordVizTool/)   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   June 2018 – Present
- Creating a slack-clone with React.js and Aphrodite on front-end and Firebase for back-end

WordNet   February 2018
- Implements a WordNet (lexical database for English) in Ruby
- Uses 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 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
- Created with JavaScript and Firebase for OAuth 2.0 login authentication

Visual Python Simulator   May 2017
- Simulates an explosion from where the user clicks onto a cube of particles with adjustable mass, force, and gravity
- Used VPython (Python with Visual, a 3D graphics module) for particle generation, animations, and calculations

LEADERSHIP EXPERIENCE

Algorithms Club, *Treasurer*   November 2017 - Present
- Responsible for securing and managing club funding

Potomac Chinese School, *Teacher Assistant*   September 2014 – June 2016
- Assisted teachers with a class of 30 young students and helped coordinate events with 500+ attendees