HENRY CHEN

www.henrychen.design + hyc@umd.edu+ 301-326-3233

EDUCATION

University of Maryland

College of Computer, Mathematical, and Natural Sciences Bachelor of Science, Computer Science, Major GPA: 4.0/4.0

Bachelor of Science, Statistics, Major GPA: 4.0/4.0

College Park, MD Cumulative GPA: 3.97 Expected May 2020 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

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No. 100 (1997)

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 the GoLean.io 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

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 grading and managing 30 young students
- Helped coordinate community events with 500+ attendees