TIFFANY PHAN

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EDUCATION

Bachelor of Science in Computer Science | University of Colorado at Boulder   Expected May 2021
- **Computer Science GPA: 3.95**; **Cumulative GPA: 3.83**
- Honors / Awards: Dean's List, CU Boulder Esteemed Scholarship
- Relevant Coursework: Data Structures, Computer Systems, Software Development and Tools, Algorithms, Intro to CyberSecurity, Operating Systems, Principles of Programming Languages, Data Science, Intro to Robotics

SKILLS

Languages: C++, C, R, Python, JavaScript, HTML, CSS, Bash, Scala (learning), SQL (learning), TypeScript (learning)
Other: Git, Agile / Scrum, Visual Studio Code

SOFTWARE DEVELOPMENT

Undergraduate Software Developer   October 2019 - Present
Laboratory for Atmospheric and Space Physics | Boulder, CO
- Recreating a PHP application to use Angular frontend and Node.js backend
- Skills Applied: TypeScript, Angular, HTML, CSS

Big Data Analyst Intern   June 2019 - August 2019
UCLA B.I.G. Summer | Los Angeles, CA
- Increased genetic discovery power by 46% compared to standard model typically used in genome-wide association studies by training complex phenotype machine learning model to better infer environmental factors
- Developed pipeline using linear regression and principal component analysis in R to infer environmental components
- Wrote shell scripts to interact with cluster server and parallelize data processing using job arrays
- Managed team tasks using Agile / Scrum framework
- Skills Applied: Machine Learning, Data Science, Bioinformatics, R, Bash

PROJECTS

Pancake Post | Python, Flask, Socket.IO, HTML, CSS, JavaScript | HackCU Hackathon   February 2019
- Developed browser extension that adds a forum with live chat to every website the user visits
- Worked on Flask Socket.IO communication, and Chrome and Firefox extensions

MyCUEverything | Python, HTML, CSS, JavaScript | T9Hacks Hackathon   February 2019
- Developed web application that displays student's school information, such as GPA and student ID, all on one page using Beautiful Soup library
- Worked on backend API using Python to scrape relevant school websites for student information
- Earned award for "Best Community Hack"

BitW1se | Node.js, HTML, CSS, SQL   September 2018 - December 2018
- Bitwise visualizer that displays graphical representations of each bitwise operation and its effect on binary numbers
- Parsed user input and returned expected binary operation result using Node.js and stored results in SQL database
- Performed unit tests utilizing Mocha framework

LEADERSHIP

Course Assistant: Intro to Computing   August 2018 - December, 2018
University of Colorado at Boulder | Boulder, CO
- Assisted students in learning concepts, coding logic, algorithms, syntax, and homework in C++ during 3 lab sections (3.75 hrs/week) and at personal office hours (~4 hrs/week) with a total of 700 enrolled students in this course

AFFILIATIONS & AWARDS

T9Hacks 2019 Hackathon, *Best Community Hack Winner*   February 10, 2019
Lucid Coding Challenge 2019, *First Place Winner*   February 2, 2019
Local Hack Day 2018 Hackathon, *Most Random Hack Winner*   December 1, 2018
CyberSecurity Club   September 2018 - Present