ANSON (YUAN-CHENG) TSAI

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EDUCATION

University of California Berkeley - *Expected Graduation May 2019* GPA 3.600

- Major: B.S. in EECS (Electrical Engineering & Computer Science), Regents' and Chancellor's Scholar
- Current courses: Machine Structures (CS61C), Information Devices and Systems II (EE16B), Unix (CS9E)
- Completed: Structure and Interpretation of Computer Programs (CS61A), Data Structures (CS61B), Information Devices and Systems I (EE16A), Multivariable Calculus (Math 53)

EXPERIENCE

CS61B Academic Intern, UC Berkeley 2017 - Present

- Assist instructors and students during CS61B lab hours
- Resolve student inquiries regarding data structures during office hours

Junior Mentor, Computer Science Mentors, UC Berkeley 2017 - Present

- Lead and teach small group tutoring sessions for computer science students
- Prepare course materials and design problems to further aid student understanding

Tech Officer, RCSA Professional Committee, UC Berkeley 2016 - Present

- Plan and host seminars and workshops that help students with building their professional profiles
- Manage committee website and blog

Project Lead, General Intern PVNet Management/Technology Internship Summer of 2014

- Led the Laser Signaling Device Subproject that allowed quadcopters to communicate quicker from long distances
- Utilized quadcopters and GIS mapping technology to measure the changing land structure of the Portuguese Bend landslide area near residential housing

SKILLS

Languages	Java, Python, C, HTML, CSS, JS, UNIX (BASH), Rails, Scheme, SQL
Other	Linux (UNIX), MacOS, Windows**,** Photoshop, AutoCAD, SolidWorks, Autodesk Maya

PROJECTS

GitHub: https://github.com/TsaiAnson

Graph Package + Make and Trip Clients - Course

The package includes facilities to manipulate graphs. It is capable of breadth-first and depth-first traversals, and search via either Dijkstra's algorithm or A search. The Make client rebuilds projects by checking file dependencies and file age. The Trip client calculates the shortest path between two or more points on a map. Written in Java.*

Digital Schedule - Personal

The Digital Schedule keeps track of all entries and properly notifies the User when the set time requirements are met. The program also allows the User to create contacts with names and phone numbers. For User interaction, the program includes a basic GUI interface. Written in Java.

Library System - Personal

The Library System is designed to digitally manage a library. The program handles all check-outs and check-ins, keeps track of all overdue items, and adds any new items that the User specifies. All data is stored in text files to allow offline storage, and the User interacts with the program through a basic GUI interface. Written in Java.

*Note: To access projects that are not public on GitHub, please contact me directly.

HONORS AND AWARDS

UC Berkeley Regents' and Chancellor's Scholarship 2016 - Present

Palos Verdes Peninsula High School Valedictorian 2016

2nd Place TSA Teams Best-In-Nation National Competition - Team Captain Summer of 2015