ANSON (YUAN-CHENG) TSAI

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EDUCATION

University of California Berkeley - ***Expected Graduation May 2020*** Total GPA 3.728 Major: 3.880

- Major: B.S. in EECS (Electrical Engineering & Computer Science), Regents' and Chancellor's Scholar
- Current courses: Efficient Algorithms and Intractable Problems (CS170), Internet: Architecture and Protocols (CS168), Social Implications of Computer Technology (CS 195)
- Completed: Structure and Interpretation of Computer Programs (CS61A), Data Structures (CS61B), Machine Structures (CS61C), Discrete Mathematics and Probability Theory (CS70), Information Devices and Systems I (EE16A), Information Devices and Systems II (EE16B)

EXPERIENCE

Research Assistant @ Netsys, UC Berkeley Spring 2017 - Present

- Develop code for ThrottleBot, an application designed to find hidden bottlenecks in distributed systems
- Experience with Quilt (Container Orchestrator), Docker, AWS, Nginx
- Co-authored research paper regarding the theory, efficacy, and applications of ThrottleBot

Computer Science Academic Intern, UC Berkeley Spring 2017 - Present

- Assist instructors and students during CS61C lab hours
- Resolve student inquiries regarding course material during office hours

Associate Mentor, Computer Science Mentors, UC Berkeley Spring 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 - 2017

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

PROJECTS

GitHub: https://github.com/TsaiAnson

Food Finder - Personal

Food Finder is a Tinder-like app that is designed to help people find restaurants near them by learning their preferences over time. For the backend, it uses Redis and ETCD services to store user sessions, progress, and preferences— salts are also used to protect user data. For the frontend, Angular will be used to build the user interface. Lastly, the app will be deployed using Nginx and clusterized Redis and ETCD services to allow scalability. Work currently under progress.

eLecture - Personal

eLecture is a platform that is designed to enhance and bridge interactions between instructors and students during lectures. It features a chatroom where students may post questions that teachers can view and filter by popularity. It is planned to integrate interactive tools similar to iClickers within the interface. Developed using the MERN stack. Work currently under progress.

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.

SKILLS

Languages	Java, Python, C, HTML, CSS, Django, React JS, Express, Mongoose, Node JS, Bash, SQL
Other	Linux (UNIX), MacOS, Windows, AWS, Nginx, Quilt, AutoCAD, SolidWorks, Autodesk Maya

HONORS AND AWARDS

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

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