# Hantao (Will) Wang

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## **EDUCATION**

### **UC** Berkeley

B.S. in Electrical Engineering and Computer Science

August 2016 - May 2019

Tech GPA: 3.98, Cum GPA: 3.85

Eta Kappa Nu (HKN), Deans Honor List (Spring 17, Fall 17, Spring 18)

Selected Coursework: Probability and Random Processes, Operating Systems, Internet Architecture and Protocols, Computer Security, Algorithms and Intractable Problems, Computer Architecture, Discrete Math, Data Structures, Data Science, Information Devices and Systems

langauages := []api.Language{Go, Python, Java, Javascript, SQL, C, HTML, CSS, Latex}

## EXPERIENCE

# Network Systems Lab

Research Assistant April 2017 - Present

- Triggersafe
  - Currently researching how distributed systems respond to developer defined event triggers, looking at feasibility, convergence, performance issues.
  - Architectured and implemented Triggersafe, a client side Kubernetes controller in Go to check and enforce user defined placement invariants on a Kubernetes cluster.
  - Built a custom release of Kubernetes off of release 1.10 to support the master side features of Triggersafe.
- Throttlebot / AutoTune
  - Previously researched the automatic identification of resource utilization bottlenecks in a distributed system by systematically throttling microservice container resources.
  - Implemented this as Throttlebot, a tool that automates this process and uses it to optimize resource allocation, finding and eliminating resource over-provisioning and under-provisioning. Paper draft available by email.

#### Kelda

Software Engineering Intern

May 2018 - August 2018

 Working on making Kubernetes more accessible by creating a tool that eases the complex CI/CD and incident response pipelines.

# CS 168: Internet Architecture and Protocols

Undergraduate Student Instructor

August 2018 - Present

- Teaching a discussion section every week and working on developing course material.
- Currently working on writing new class projects!

# Berkeleytime

Backend Engineering Lead

July 2018 - Present

Backend Developer

April 2017 - July 2018

- Berkeleytime is Berkeleys most popular course catalog website, with over 26,000 unique monthly users.
- Implemented user authentication, accounts, and both frontend and backend aspects of the scheduler.
- Working on migration on service from Heroku to Kubernetes and setting up monitoring and logging with EL(F)K and Prometheus.

#### Computer Science Mentors

Junior Mentor

January 2018 - May 2018

- Taught CS 61B: Data Structures to a small section of 5 students once a week.
- Created a worksheet on Weighted Quick Union w/ Path Compression and its amortization proof.

## Gulfstream Aerospace

High School Intern

August 2015 - June 2016

- Worked on interior design drawings of G550 and G650 aircraft using AutoCAD and CATIA.
- Created & updated CAD and assemblies. Reviewed & corrected other engineer's drawings and specifications.