Hantao (Will) Wang

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EDUCATION

UC Berkeley

M.S. in Computer Science

August 2019 - May 2020

B.S. in Electrical Engineering and Computer Science (Tech GPA: 3.98)

August 2016 - May 2019

Selected Coursework: Graduate Computer Systems, Graduate Computer Networks, Operating Systems, Internet Architecture and Protocols, Computer Security, Machine Learning, Algorithms, Computer Architecture, Probability and Random Processes

Languages: Go, Python, Java, C, JavaScript, SQL, HTML/CSS, Latex

Skills/Interests: Distributed Systems, Infrastructure, Networking, Kubernetes, Containers, Backend Development

EXPERIENCE

Google

Software Engineering Intern

May 2019 - August 2019

- This summer I am working on the open source Kubernetes project as part of the Kubernetes Storage Lifecycle team, where I will be working on everything related to persistent volumes.

Network Systems Lab

Researcher April 2017 - Present

- My research is focused on practical solutions to real world problems in distributed systems. I've been doing research since I was a freshman in undergrad, and I have worked on all aspects of research as you would expect from a graduate student.
 - Data Lineage: Currently working on an system that implements data lineage, simple to request lineage, for the enforcement of operator defined data based privacy and seecurity policies in distributed systems.
 - Verified Event Handlers: Architectured and implemented Scotty, a client side event based Kubernetes
 controller in Go to check and enforce complex user defined placement invariants on a Kubernetes cluster along
 with master side components.
 - Throttlebot: Large scale resource allocation optimization in distributed systems through the elimination of
 resource over and under provisioning. Created Throttlebot, a black box tool that tunes resource limits in a
 distributed application to optimized for cost and performance by systematically throttling container resources.
- Published two popular Medium articles on microservice architecture and container technology.

Teaching (TA/uGSI)

CS 162 Operating Systems: Spring 2019, Fall 2019 (Head TA)

CS 168 Internet Architecture: Fall 2018

- Created project 2 (TCP/IP) in CS 168 and currently creating homework 4 (distributed systems) in CS 162.
- Taught discussion sections, held office hours, and created material like discussions, autograders, and content.

Berkeleytime

Product Manager, Backend Engineering Lead

April 2017 - May 2019

- Berkeleytime is UC Berkeleys most popular course catalog, with over 26,000 unique monthly users.
- I oversaw and developed on major initiatives to redesign a new frontend in React and move our infrastructure to Kubernetes. I also worked on Django backend projects like the scheduler, user authentication, and application performance.

Kelda

Software Engineering Intern

May 2018 - August 2018

- Worked with a small team of researchers from NetSys on making Kubernetes more accessible by creating a local development tool that eases the complex CI/CD and incident response pipelines.
- Build applications using GKE, AWS, and Minikube along with monitoring, logging, and CI/CD tools such as Jenkins, Spinnaker, Gitlab, Prometheus, Elasticsearch, etc.