YUANZHI (BILL) GAO

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EDUCATION

Master of Science: Computer Science — September 2016 - March 2018
University of California, Los Angeles - Los Angeles, CA
Advisor: Mario Gerla
GPA: 3.94

Bachelor of Science: Computer Science — July 2012 – June 2016
University of California, Los Angeles - Los Angeles, CA
GPA: 3.39

SKILLS

C/C++, Python, Linux Kernel Programming, Embedded Programming, TCP/IP, Android Development

WORK EXPERIENCES

Software Engineer — May 2018 – Present
Arista Networks, Inc. – Santa Clara, CA
Working as a software engineer on Routing/Switching Protocol Team.
- EOS SDK API development for programmable router configuration.
- Test infrastructure development regarding EOS SDK API testing.
- Directly contributed to Egress Peer Engineering design and implementation in EOS.
- Routing protocols development, especially BGP IP/MPLS control plane.
- Involved in efforts to migration towards new EOS command line interface.

Software Engineering Intern — June 2017 – September 2017
Arista Networks, Inc. – Santa Clara, CA
Worked as a software engineering intern on Routing/Switching Protocol Team.
- Worked on improving test scheduling tools for EOS software development.
- Designed and implemented feature tracking tool for EOS software modules.

Software Engineering Intern — July 2016 – December 2016
Cymer, an ASML Company – San Diego
Worked as a software engineering intern on EUV Software Team.
- Added improvement for error logging interfaces on High Power Seed System.
- Increased error logging coverage for EUV source software system.

Software Engineering Intern — June 2014 – September 2014
Cymer, an ASML Company – San Diego
Worked as a software engineering intern on EUV Software Team.
- Implemented error/warning logging software interfaces for High Power Seed System.

PUBLICATIONS

- Jorge Mena , **Yuanzhi Gao**, Mario Gerla. 'MPTCP Path Selection using CapProbe.' 2018 IEEE Wireless Communications and Networking Conference (WCNC)

RESEARCH & PROJECT EXPERIENCES

CapProbe over MPTCP (at UCLA Network Research Lab) — September 2016 – June 2017
- Designed and Implemented a Linux kernel module, CapProbe, that measures link capacities on multiple network interfaces upon MultiPath TCP (MPTCP) protocol sessions.

- Conducted controlled/uncontrolled experiments to verify CapProbe performance and use cases of CapProbe.

Cloud Assisted Mobile Augmented Reality March 2017 – June 2017

- Implemented a prototype of cloud assisted AR mobile application (on Android) based on ARToolKit.
- Evaluated mobile AR performance, feasibility and potential bottlenecks.

Named Data Network Research January 2015 – June 2015

- Expand unit test coverage for NDN simulator (ndnSIM) models and applications.
- Involved in efforts to developing and debugging routing functionalities of ndnSIM.

PlantViz (Android App) January 2015 – March 2015

- Designed and developed a plant health monitor system using Arduino Yun, photo sensors and humidity sensors.
- An Android app PlantViz was built to monitor the stats in real time.