Chao Zhao

(412) 726-3278 | chaoz2@andrew.cmu.edu | 401 Shady Ave, Pittsburgh, PA 15206

EDUCATION

Carnegie Mellon University, Information Networking Institute   Aug. 2017 - May 2019 (Exp.)
Master of Science, Information Technology | Pittsburgh, PA
  GPA: 3.81/4.0
  Award: INI Scholarship

Shanghai Jiao Tong University   Sep. 2013 - Jun. 2017
Bachelor of Science, Computer Science | Shanghai, CN
  GPA: 3.63/4.0 (major) 3.52/4.0 (overall)
  Award: 2017 Outstanding Graduates of Shanghai (5%), 2013-2014 Academic Excellence Scholarship (C)

University of Washington   Jul. 2015 - Aug. 2015
Summer Session, Electrical Engineering | Seattle, WA

PROFESSIONAL EXPERIENCE

Linux Kernel Intern @ Intel Asia-Pacific Research & Development Ltd   Jul. 2016 - Nov. 2016
• Internship at Graphics Virtualization Group GVT-g, Open Source Technology Centre.
• Participated in enabling GVT-g Linux 4.3 kernel i915 graphics driver on Xen and KVM with Intel Kaby Lake host.
• Code contributed to Linux kernel 4.3-vgt in 2017.

Research Assistant @ Lab of Innovation on Networking, SJTU   Sep.2015 - Jun. 2017
• Topic: secure recording on Android mobile devices using acoustic jamming and self-interference cancellation.

SKILLS

• Technical: Python / Java / C / C++ / Linux / Hadoop / Spark

PROJECTS

Scalable Web Service   April 2018
  Implemented a multi-layer elastic web using micro-service architecture. Conducted performance tuning.
  System load monitoring and prediction. Separately scale out/in multiple tiers. Minimize traffic complexity.

Spark Iterative Machine Learning Training   Feb. 2018
  Developed a scalable distributed iterative gradient descent program using Apache Spark.
  Performance optimization, minimizing shuffle and memory usage.

CloudFS   Dec. 2017
  Built a user space hybrid filesystem resident on local SSD and backed by Amazon S3-like cloud storage.
  CloudFS supports local proxy file, block-level deduplication, filesystem snapshot, and write-back cache.

Congestion Control with BitTorrent   Nov. 2017
  Implemented a reliable concurrent BitTorrent-like file transfer application on top of UDP.
  Efficient network protocol with flow control and congestion control. Concurrent file download/upload.

Liso Server   Oct. 2017
  Built a web server implements HTTPS and CGI using Unix socket and I/O multiplexing.

LEADERSHIP

• Excellent Student Cadre of SJTU   Oct. 2014

• Co-Chair, Students' Entrepreneurship and Innovation Centre, SJTU   2013-2015