

Xuan Kelvin Zou

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EXPERIENCE

Google, Mountain View, CA — Software Engineer

Oct 2016 - PRESENT

Google Compute Engine: I work on a virtual network platform for GCE, Andromeda, specifically working on networking encryption. I manage the all cross cluster traffic encryption for GCP at scale.

(<https://cloud.google.com/security/encryption-in-transit/>)

Microsoft, Redmond, WA — Software Engineer II

Sept 2015 - Oct 2016

Azure Cloudnet VmSwitch: I extended several features in Azure Host Network Kernel Stack, including adding a diagnostic tool to monitor the health index of VMs in Azure, supporting packet interception with low overhead.

VMware, Palo Alto, CA — R&D Intern

Jun 2015 - Aug 2015

Network Analyzer: I helped design and develop a network analyzer to better examine logical virtual networks.

AT&T Labs-Research, Bedminster, NJ — Research Intern

Jun 2014 - Aug 2014

Video Streaming: I designed and evaluated an efficient video-streaming algorithm for cellular network
The project is published in an ACM workshop

Amazon.com, Seattle, WA — SDE Intern

Jun 2013 - Aug 2013

Ads Serving: I designed and implemented a cache-layer for Vickrey auction algorithm in backend servers for ads placement.

EDUCATION

Princeton University, Princeton, NJ — MA

Sept 2013 - Jun 2015

Majored in CS, Advisor: Jennifer Rexford, Area: Systems and Networks

University of Illinois, Urbana-Champaign, IL — BS

Aug 2011 - May 2013 (Transferred from Fudan University, China in 2011)

Majored in CS, Advisor: Brighten Godfrey, Area: Systems and Networks

SKILLS

Programming Languages:
C/C++, Python, Java

Systems and Networking:
Windows/Linux Kernel,
Distributed Systems, Host
Networking Stack, SDN

Algorithms:

Convex Optimization

AWARDS and PUBLICATIONS

5 Conference and Workshop papers (over 500 citations), 4 patents filed.

Named on Dean's List of Engineering College

UIUC (2011-2013)

National Scholarship, China

Fudan University(2009-2010)

Silver Medalist at National Chemistry Olympiad

Jiangsu, China 2008

LANGUAGES

Chinese, English

PUBLICATION LIST

Dynamic Service Chaining with Dysco

P Zave, RA Ferreira, XK Zou, M Morimoto, J Rexford

Proceedings of the Conference of the ACM Special Interest Group on Data Communication (SIGCOMM 2017),

RAIL: A Case for Redundant Arrays of Inexpensive Links in Data Center Networks

D Zhuo, M Ghobadi, R Mahajan, A Phanishayee, XK Zou, H Guan, Arvind Krishnamurthy

14th USENIX conference on Networked Systems Design and Implementation (NSDI 2017).

Can accurate predictions improve video streaming in cellular networks?

XK Zou, J Erman, V Gopalakrishnan, E Halepovic, R Jana, X Jin, J. Rexford

16th International Workshop on Mobile Computing Systems and Applications (HotMobile 2015).

An assertion language for debugging SDN applications

R Beckett, XK Zou, S Zhang, S Malik, J Rexford, D Walker

Third workshop on Hot topics in software defined networks (HotSDN 2014).

VeriFlow: verifying network-wide invariants in real time

A Khurshid, XK Zou, W Zhou, M Caesar, PB Godfrey

10th USENIX conference on Networked Systems Design and Implementation (NSDI 2013).