

Jingxuan (Jensen) Zhang

Markdown -> PDF, HTML

jingxuan.n.zhang@gmail.com

(+86) 188-1759-8700

skype: fno2010@live.cn

INTERESTS

Love mathematics and logic, especially algebra.
Love *Free Software*. I'm a very fan of RMS.
DIY drone and the flight controller.
Bicycling and playing harmonica.

PROJECT EXPERIENCE

SeL4-based HD-ElastOS (Kortide, Shanghai)

Intern, October 2014 - April 2015

- ▶ Ported micro-kernel seL4 to some specific hardware platforms (pandanboard, lamobo M1, etc.).
- ▶ Ported ElastOS on top of seL4.

Devopen: SDN IDE

Project Lead, 2016 - 2017

- ▶ The first IDE supporting visual programming for Software-Defined Networking.
- ▶ Integrate the complete SDN lifecycle of Dev, Op and Use.
- ▶ Gaven the tutorial and demonstration in OpenDaylight Summit 2016 and SuperComputing 2016.

Unicorn: Unified Resource Orchestration for Multi-Domain, Geo-Distributed Data Analytics

Architect and Contact, August - November 2017

- ▶ The first multi-domain, multi-controller orchestration system for scientific data analytics.
- ▶ Coordinated with the collaborators from CERN, Caltech and Starlight to deploy the system in Caltech HEP Data Center.
- ▶ Demonstrated the prototype in SuperComputing 2017.

OpenDaylight ALTO (Redmond, WA)

Project Contact, 2015 - present

- ▶ Official open source implementation of the Application-Layer Traffic Optimization (ALTO) protocol.
- ▶ Designed and Implemented the main building blocks of ALTO in OpenDaylight.
- ▶ Manage the project in the OpenDaylight community and review the code.
- ▶ Created OpenALTO community (<https://github.com/openalto/>).

EDUCATION

Tongji University

Undergraduate Student (Mathematics), 2011.09 - 2013.01

B.Sc. (Computer Science), 2013.03 - 2015.07

Master Student (Computer Science), 2015.09 - 2017.03

Ph.D. Student (Computer Science), 2015.09 - now

AWARDS

First prize in Chinese National Undergraduate Mathematics Competition 2012.

Honor Mention prize in ICM/MCM 2014.

Second prize in Chinese National Undergraduate Electronic Design Contest 2014.

SELECTED PUBLICATIONS

1. Xiang, Q., **Zhang, J.**, Wang, X., Liu, J., Guok, C., Le, F., MacAuley, J., Newman, H. and Yang, Y.R. 2018. Fine-Grained, Multi-Domain Network Resource Abstraction as a Fundamental Primitive to Enable High-Performance, Collaborative Data Sciences. In *Conference of the ACM Special Interest Group on Data Communication (SIGCOMM)*, ACM.
2. Gao, K., **Zhang, J.**, Yang, Y.R. and Bi, J. 2018. Prophet: Fast Accurate Model-based Throughput Prediction for Reactive Flow in DC Networks. In *37th IEEE International Conference on Computer Communications (INFOCOM)*, IEEE, 720-728.
3. Wang, W., **Zhang, J.**, Guo, D., Xiang, Q., Huang, C., Chang, J. and Zhang, L. 2016. Towards an emerging cloudware paradigm for transparent computing. In *9th IEEE/ACM International Conference on Utility and Cloud Computing (UCC)*, IEEE, 43-48.

SKILLS

Very experienced with development in OpenDaylight.

Familiar with full-stack web development.

Familiar with embedded programming.

Details for me, visit my homepage in github: <https://fno2010.github.io/>