Qingnan Duan

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Waterloo, Ontario

Education

Tsinghua University, Beijing, China

Department of Computer Science and Technology, Computer Science and Technology   Aug 2014 – July 2018
- Overall GPA: 91 / 100 Rank: 26/152
- Core courses: Fundamentals of Programming (100) Object-Oriented Programming (96) Programming and Training (97) Data Structures (93) Formal Language and Automation (96) Principles and Techniques of Compilers (97) Software Engineering (96) Network Programming (95) Operating Systems (90)

School of Economics and Management, Economics (minor)   Sept 2015 – July 2018
- Overall GPA: 84 / 100
- Core courses: Principles of Economics (86) Intermediate Macroeconomics (84) Money and Banking (85) Econometrics (87) Labor Economics (89)

University of Waterloo, ON, Canada

Math 3+X program, Computer Science Sept 2017 – April 2018
- Courses: Concurrent and Parallel Programming (82) Computer Security and Privacy (88) Software Requirements: Specification and Analysis (95)

Cheriton School of Computer Science, MMath   Sept 2018 – present

Research Experience

Tsinghua University

Institute for Network Sciences and Cyberspace   Oct 2016 – June 2017
- Studying software defined network and network function virtualization
- Analyzing the advantage and disadvantage of using P4
- Adding support of stateful network functions to P4 language
- Implementing a prototype compiler which can process P4 with stateful support

Fault tolerance implementation on consensus system   Jan 2018 – April 2018
- Learning about traditional consensus protocols like Paxos and Raft
- Implementing fault tolerance mechanism on a research project, Carousel

Internship

Microsoft

Windows Devices Group Asia Experience, Beijing   June 2017 – Aug 2017
- Tested potential new features by implementing prototypes
- Connected a SwiftKey service to Windows 10 IME
- Participated in designing multi-device cross-platform roaming service for generating personal input candidates

Volunteering and activities

Campus Tour Guide Volunteer   Oct 2014
- Showing the tourists the historic buildings in Tsinghua University

Tsinghua Summer School Tutor Aug 2015 & Aug 2016
- In charge of a class of 30 high school students who come from different provinces of China
- Leading high school students to experience life in Tsinghua and learn the virtue of Tsinghua

Tsinghua Basketball Association   Oct 2014 – June 2017
- Officiating basketball games of different levels, at Tsinghua University
- Certificate of class-2 basketball referee, issued by China Basketball Association

Sommelier at Concours Mondial de Bruxelles   May 2018

English tests

TOEFL 110/120   April 2017

Skills

- Programming Language: C/C++, Python, Java
  Also know about HTML, JavaScript, MATLAB, x86/MIPS Assembly
- Mobile Programming: Android
- Hardware Programming: VHDL
- Operating System: Familiar with both Windows and Ubuntu
- Version Control: Git

Scholarship and Awards

- Scholarship of Academic Excellence   Dept. of CST, Tsinghua University, 2014-2015
- 2nd place in Team Programming Contest (hosted by Department of Electronic Engineering, Tsinghua University)
- Distinguished Graduate   Dept. of CST, Tsinghua University, 2018
- David R. Cheriton Graduate Scholarship   School of Computer Science, U of Waterloo, Fall 2018

Other

GitHub: https://github.com/duanqn
LinkedIn: https://www.linkedin.com/in/%E6%B8%85%E6%A5%A0-%E6%AE%B5-90b472a4/
GPG public key: https://github.com/duanqn/Publish/blob/master/Public%20keys/GPG_public.pub