Xie, Minghao

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RESEARCH INTERESTS	Software-defined Networking, Cache Networks (ICN), Data Center Networking, Distributed Systems, Peer-to-Peer Systems, Cognitive Networks

EDUCATION

Sichuan University, Chengdu

B.Eng. Computer Science   Sep 2014 – Jul 2018
- Top-Notch Talent (in National Honor Program, admission rate: 3%)
- Overall GPA: 91.13/100 (2%, with honors), Major GPA: 91.19/100

RESEARCH EXPERIENCE

Research Intern, Sichuan University   Mar – Jun 2017
The key lab of network intelligence and knowledge engineering
Supervisor: Guanghong Lv, Professor
- Composed the survey paper in Software-defined networking (under submission)
- Conducted the research of cache policy in ICN and verified its experiments on mininet

HONORS & AWARDS

Student Awards — Sichuan University
- Outstanding Student   Nov 2017
- Top-Notch Talent First-class Scholarship (Top 1%)   Nov 2017
- Top-Notch Talent Second-class Scholarship (Top 4%)   Nov 2015/2016
- Integrated first-class Scholarship (Top 2%)   Oct 2016
- Integrated third-class Scholarship   Sep 2015/2017

Student Awards — Ministry of Education, China
- National Scholarship (Top 1.5%)   Nov 2016
- Third Prize of China Students Service Outsourcing Innovation and Entrepreneurship Competition (Top 3%)   Oct 2016

Travel Awards — College of Computer Science, Sichuan University
- 2015 China National Computer Congress, Hefei, Anhui   Oct 2015
- Workshops in Hong Kong Polytechnic University, Hongkong   Jul 2015

SELECTED PROJECTS

Explore A SDN-based In-Network Caching Technique in ICN (PI)   Apr 2017 – Present
Supervisor: Guanghong Lv, Funding: Top-Notch Talent Research Training Program
- Improved the performance of in-network caching technique in ICN
- Enabled SDN features to simplify the compatibility/management/policy

Recloud - Hybrid Cloud Storage System (PI) Apr 2016 – Apr 2017
Supervisor: Guanghong Lv, Funding: Top-Notch Talent Research Training Program

- Built a serverless hybrid cloud storage system, written in Python
- Coordinated the design of overall architecture and the merge of heterogeneous storage
- Developed the authentication module, reaching a balance between convenience and security

SafeMove - Safety Data Visualization Platform   Apr – Nov 2016
Supervisor: Lei Duan, Funding: Undergraduate Training Programs for Innovation and Entrepreneurship (Province-Level)
- Programmed a loose coupling and high throughput back-end systems
- Supported 7*24 services and fast fail-over ability

Wireless Camera based Real-time Pedestrian Counting System (PI) Apr 2015 – Apr 2016
Supervisor: Dezhong Peng, Funding: Undergraduate Training Programs for Innovation and Entrepreneurship (School-Level)
- Built the real-time detecting/tracking system by using OpenCV & QT
- Designed the loose coupling architecture, achieving easy module replacement
- Boosted the recognizing & detecting speed by 25x

EXCHANGES   Zhejiang University, Zhejiang   Jul – Aug 2016
- Participated in two-week course – Introduction to Computer System, instructed by Professor **Yale Patt**
- Got A+ for each assembly-language-level problem set

Hong Kong Polytechnic University, Hongkong   Jul 2015
- Accomplished data sructure course within one week
- Presented a theme talk on workshop about research methods

TECHNICAL   Language: Python, C/C++, Java, Prolog, HTML/CSS, Shell Script, matlab
COMPETENCE Library: Django, twisted, OpenCV, qt5
DevOps: Git, Docker, nginx, UML
Databases: Postpres
Networking: Mininet, Wireshark
Editing: Vim, LaTex

OTHERS   Github page: My Github
Hobbies: Jogging (regularly), reading, playing basketball/badminton/table tennis, swimming, sketching (B Level), etc.
Love building systems, devote to things of interest, hate anything with low-efficiency