

## SHITONG (SEAN) ZHU

### EDUCATION

#### Chongqing University of Posts and Telecommunications

2012 – 2016 – Chongqing City, P. R. China

B.Eng., Communications Engineering (ECE)

- Cumulative GPA: 3.67/4.0 – Rank: 16/289 – Top 6%
- Supporting Courses:
  - Calculus I/II, Linear Algebra, Probability Theory and Statistics
  - Computer Networking, Wireless Ad-hoc Networks, Fundamentals of Telecommunication, Mobile Telecommunications
  - Signal and Systems, Speech Signal Processing, Digital Image Processing
  - Introduction to Database Systems, Intro to OOP Using Java, Network Programming
  - Digital Circuit Design, Programmable Logic Devices, Practical Electrical Design Automation

### PUBLICATIONS

#### – Working Papers:

- [IEEE WCM] Topology Control in Internet of Things: A Survey  
{Jun Huang, [Shitong Zhu](#), Duan Qiang, Cong-cong Xing, and Mengchu Zhou}  
Submitted to *IEEE Wireless Communications*, under review

#### – Conference Articles:

- [SAC '15] A Source-location Privacy Protection Strategy via Pseudo Normal Distribution-based Phantom Routing in WSNs.  
{Jun Huang, Meisong Sun, [Shitong Zhu](#), Yi Sun, Cong-cong Xing, and Qiang Duan}  
In *Proceedings of the 30th Annual ACM Symposium on Applied Computing* (pp. 688-694). ACM. 2015
- [RACS '15] On Selecting Composite Network-Cloud Services: A Quality-of-Service Based Approach.  
{Minkailu M. Jalloh, [Shitong Zhu](#), and Jun Huang}  
In *Proceedings of the 2015 ACM Research in Adaptive and Convergent Systems*, to appear.

#### – Journal Articles:

- [JSW '14] A Defense Model of Reactive Worms Based on Dynamic Time.  
{Haokun Tang, [Shitong Zhu](#), Jun Huang, and Hong Liu}  
*Journal of Software* 9.11 (2014): 2778-2788
- [JCP '14] Propagation of Active Worms in P2P Networks: Modeling and Analysis.  
{Haokun Tang, [Shitong Zhu](#), Yukui Lu, and Jun Huang}  
*Journal of Computers* 9.11 (2014): 2514-2524

### RESEARCH & WORK EXPERIENCE

#### Chongqing Key Lab of Networking and Information Security @ CUPT

2013.5 – Present – Chongqing, P. R. China – supervised by [Prof. Jun Huang](#)

- Designed and implemented algorithms regarding routing and topology control techniques in Internet of Things, or Cyber-Physical Systems
- Optimized networked and distributed system design,
- Conducted extensive simulations and experiments under various testbeds.

#### Software Engineer Internship @ Douban Inc. – *a leading online community in China*

2015.7 – 2015.9 – Beijing, P. R. China

- Implemented new functionalities on server side, conducted Web development under various in using various frameworks
- Designed and tuned Spark/Hadoop scripts processing data on distributed clusters

- Prototyped, implemented and tailored algorithmic details of “Douban New Movie Chart”. Check its online version [here](#) (in Chinese)

**System Administrator Internship @ Bank of Chongqing** – *the biggest local bank*

2014.7 – 2014.8 – Chongqing, P. R. China

- Administered Linux nodes on large-scale computing clusters
- Wrote administrative Bash/Python scripts to achieve management automation
- Collected and analyzed traffic data for modeling

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SKILLS & ABILITIES

- Experienced in C/C++/Python/Java/MATLAB programming, good comprehension of algorithms and data structures
- Fluent in common design patterns, capable to build full-size software systems
- Strong background in mathematics/statistics, qualified to conduct complex quantitative analysis
- Familiar with mainstream machine learning algorithms and big data tool-chain, capable to implement data processing/algorithm design in a distributed manner
- Fluent in communication/network protocols and common simulation test-beds at research-level
- Team player, excellent oral and writing communication/collaboration skills in English

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HONORS &  
AWARDS

– Undergrad level:

- **Individual Scholarship for Scientific Innovation @ CUPT**, 2014
- **Contemporary Undergraduate Mathematical Contest in Modeling (CUMCM)** – *Second Prize in Provinces*, 2014
- FLTRP Cup English Public Speaking Contest – *Second Place in Provinces*, 2014
- **Mathematical Contest in Modeling (MCM)** – *Successful Participant*, 2015

– High-school level:

- **National Olympiad in Informatics in Provinces** (high-school version of ACM/ICPC) – *National Second Prize*, 2009

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STANDARDIZED  
TESTS

- TOEFL iBT – 104/120 (L27/R27/S26/W24) – 104 out of 120 pts
- GRE revised General Test – 321/340 (Verbal 151/Quantitative 170/Analytical Writing 3.0) – each out of 170 pts