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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 Top 10%
- 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

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

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

PUBLICATIONS

- Working Papers:

• [IEEE NTK] Topology Control in Internet of Things: A Survey, submitted to *IEEE Network*, 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

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

LANGUAGE

- 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