

# Xingsi Zhong

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## SUMMARY

I have more than six years of development experience in Python and research experience in time-series analysis, network security, cyber-physical system security, and machine learning. I developed an auto-scaling module to support millions of users around the world. I have reviewed 14 papers, published 11 papers and received 242 citations.

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## TECHNICAL SKILLS

- **Languages:** Proficient: Python, MySQL, InfluxQL; Prior experience: C++, C
- **Public Cloud:** AWS, GCP, Aliyun
- **Libraries:** boto3, google.cloud, scrapy, numpy, pandas, PyTorch
- **Operating System:** Cent OS, Mac OS, Debian, Fedora, Kali, Metasploit, Windows XP
- **Software and Tools:** Perforce, Git, Wireshark
- **Other Skills:** Traffic Analysis, Time Series Analysis, Time Series Prediction, Machine Learning

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## WORK EXPERIENCE

**Senior Staff Software Engineer - Palo Alto Networks** May 2020 - Present

Designed and re-factored the auto-scale module to support multiple metrics from multiple data sources, including predictive metrics and real-time metrics. The new architecture gives SRE flexible choices to deal with a variety of scenarios without an increased workload. The new architecture allows multiple metrics to be evaluated without conflict.

**Staff Engineer - Palo Alto Networks** Nov 2018 - Apr 2020

Re-architected the [Global Protect Mobile Gateway auto-scale](#) module. The new design reduced the communication and computation overhead and boosted the designed capacity by more than 1500 times. The new module successfully supported the dramatically increased load during the COVID-19 "work from home" transient period.

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## EDUCATION

**Ph.D. in Computer Engineering** Graduated in Aug 2018

*The Holcombe Department of Electrical and Computer Engineering,  
Clemson University, USA*

**M.S. in Computer Science** Graduated in Aug 2013

*Department of Computer Science, University of Texas-Pan American, USA*

**B.S. in Information and Computational Science** Graduated in June 2010

*College of Mathematics, Jilin University, China*

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## FEATURED PUBLICATIONS (11 publications in total as of June 2018)

**Denial of service attack on tie-line bias control in a power system with pv plant** 2017

X Zhong, I Jayawardene, GK Venayagamoorthy, R Brooks  
*IEEE Transactions on Emerging Topics in Computational Intelligence*

**Stealthy malware traffic-Not as innocent as it looks** 2015

X Zhong, Y Fu, L Yu, R Brooks, GK Venayagamoorthy  
*10th International Conference on Malicious and Unwanted Software*

**Side-channels in electric power synchrophasor network data traffic** 2015

X Zhong, P Arunagirinathan, A Ahmadi, R Brooks, GK Venayagamoorthy  
*10th Annual Cyber and Information Security Research Conference*