

ZEBO YANG

Washington University in St. Louis, MO 63130
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EDUCATION

Washington University in St. Louis

Aug 2021 - Present

Ph. D. student in Computer Science

- Advisor: Prof. Raj Jain
- Research Area: Quantum Computing, Quantum Networks, Network Security, Blockchains, and Machine Learning.
- Teaching Assistant: CSE574S: Recent Advances in Wireless and Mobile Networking (Fall 2022 and Fall 2020), CSE473S: Introduction to Computer Networks (Spring 2022)

Washington University in St. Louis

Aug 2019 - 2021

Visiting Research Associate

- Advisor: Prof. Raj Jain

Waseda University

Aug 2017 - 2019

Master's in Computer Engineering

- Advisor: Prof. Tatsuo Nakajima
- Research Area: Ubiquitous Computing, Distributed Systems, Internet of Things.
- Thesis: Sloth: A Reconfigurable Compiler for Task-based Intermittent Programming

Guangdong University of Foreign Studies

Aug 2008 - 2012

Bachelor's in Computer Engineering

- Thesis: Image Smoothing Based on Partial Differential Equation

EXPERIENCE

DJI, Inc.

Jul 2015 - 2017

Senior Software Engineer

Shenzhen, China

- Role: Lead of the hybrid-app team in the R&D department.
- Responsibility: Led the design and development of the hybrid software application, including DJI Assistant 2, DJI Ground Station, Drone Simulator Game, and the internal hybrid-app framework.

Misfit Wearables

Jul 2014 - 2015

Senior Web Developer

Shenzhen, China

- Role: Web product owner.
- Responsibility: Design and development of web products, including my.misfit.com, store.misfit.com, and mistfit.com.

Baidu, Inc.

Jul 2011 - 2014

Senior Software Engineer

Shenzhen, China

- Role: Web-end developer.
- Responsibility: Development of software and web products for overseas users.

Tencent, Inc.

Jul 2010 - Oct 2010

Web Engineering Intern

Shenzhen, China

- Role: Intern Engineer.
- Responsibility: Development of the web end of Tencent Pay.

PUBLICATIONS

Zebo Yang, Haneen Alfauri, Behrooz Farkiani, Raj Jain, Roberto Di Pietro, and Aiman Erbad. A survey and comparison of post-quantum and quantum blockchains. *IEEE Communications Surveys & Tutorials*, pages 1–1, 2023

Zebo Yang, Maede Zolanvari, and Raj Jain. A survey of important issues in quantum computing and communications. *IEEE Communications Surveys & Tutorials*, 25(2):1059–1094, 2023

Tara Renduchintala, Haneen Alfauri, Zebo Yang, Roberto Di Pietro, and Raj Jain. A survey of blockchain applications in the fintech sector. *Journal of Open Innovation: Technology, Market, and Complexity*, 8(4):185, 2022

Zebo Yang, Tara Salman, Raj Jain, and Roberto Di Pietro. Decentralization using quantum blockchain: A theoretical analysis. *IEEE Transactions on Quantum Engineering*, 3:1–16, 2022

Maede Zolanvari, Zebo Yang, Khaled Khan, Raj Jain, and Nader Meskin. Trust xai: Model-agnostic explanations for ai with a case study on iiot security. *IEEE internet of things journal*, 2021

Zebo Yang, Ali Ghubaish, Devrim Unal, and Raj Jain. Factors affecting the performance of sub-1 ghz iot wireless networks. *Wireless Communications and Mobile Computing*, 2021:1–13, 2021

Zebo Yang, Mingshu Zhang, Taili Zhang, Linhao Fu, and Tatuso Nakajima. Real world third-person with multiple point-of-views for immersive mixed reality. In *Society with Future: Smart and Liveable Cities: First EAI International Conference, SC4Life 2019, Braga, Portugal, December 4-6, 2019, Proceedings 1*, pages 97–108. Springer International Publishing, 2020

Zebo Yang. Sloth: a reconfigurable compiler for task-based intermittent programming. *Waseda University*, 2019

Zebo Yang and Tatsuo Nakajima. Connecting smart objects in iot architectures by screen remote monitoring and control. *Computers*, 7(4):47, 2018

PATENTS

Zhuo Guo, Zhuo Xie, Haoyu Li, Wenlin Li, Ding Wang, and Zebo Yang. Flight control method and apparatus, and control device, December 30 2021. US Patent App. 17/473,543

Zhuo Guo, Zhuo Xie, Haoyu Li, Wenlin Li, Ding Wang, and Zebo Yang. Flight control method and apparatus, and control device, September 14 2021. US Patent 11,119,506

Zhuo Guo, Zhuo Xie, Zebo Yang, Wenlin Li, Lei Wang, Ding Wang, and Haoyu Li. Flight control method, device, and smart terminal, July 18 2019. US Patent App. 16/361,659

AWARDS AND HONORS

2023	Papers featured on social media of IEEE Communications Surveys & Tutorials (twice)
2022-2023	Honors Award (top 15-20%) in Periodic Review of Doctoral Students
2019	CSCE Department Award - Waseda University
2009-2010	2 nd Prize of the National Universities Open Source and Innovation Contest 2 nd Prize of the National Challenge Cup Competition
2008-2012	Scholarship from the School of Informatics

TECHNICAL STRENGTHS

Full-Stack Developer with years of industry and research experience in computer systems and networks, skilled in Node.js, Python, C/C++, Go, Serverless architectures, and hybrid-app development.

Computer Languages	Python, Node.js, C/C++, etc.
Databases	NoSQL (Dynamodb, Mongoddb), MySQL, etc.
Tools	Matlab, Wolfram, Vim, etc.