Wenyun Dai

CONTACT
INFORMATION

White Plains
New York

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RESEARCH
INTERESTS

Cloud Computing, Distributed Computing, Mobile Systems, Privacy and Access Control

EDUCATION

Pace University New York, United States
  PhD in Computer Science, *2015 - 2018*

   • Thesis: A Fine-Grained Data Access Permission Authorization Framework for Mobile Systems

Shanghai Jiao Tong University Shanghai, China
  ME in Software Engineering, *2011 - 2014*

   • Thesis: Dynamic Resource Management in Clouds with Support for Federation

Xiamen University Xiamen, China
  BE in Software Engineering, *2006 - 2010*

TEACHING
EXPERIENCE

Lecturer & Teaching Assistant, *Columbia University*   **Sep. 2015 - Dec. 2017**
Android
  • Duties include teaching, design textbook and exercises, and Q&A hours.

Lecturer & Teaching Assistant, *Pace University*   **Jan. 2015 - Dec. 2017**
Android, Java, XML, and Cloud Computing
  • Duties include teaching, Q&A hours, design textbook and exercises, and grading

Competition Tutor, *Pace University*   **Jan. - Apr. 2016**
USACO Competition training program – Golden level, Java
  • Duties include design algorithms and problem solving methods and teaching in class

Teaching Assistant, *Shanghai Jiao Tong University*   **Sep. 2011 - Feb. 2014**
C++, Java, Algorithms, Enterprise System Architecture, SOA, and Cloud Computing Systems
  • Duties include teaching and demonstration, Q&A hours, and leading lab exercises.

SELECTED
PUBLICATIONS

Meikang Qiu, **Wenyun Dai**, Keke Gai. Mobile Applications Development with Android: Technologies and Algorithms. *CRC Press Book*. (Textbook used in Columbia University and Pace University)

Wenyun Dai, Ana Wu, Meikang Qiu. Cloud Infrastructure Resource Allocation for Big Data Applications. *IEEE Transactions on Big Data, 2018.*

Yibin Li, **Wenyun Dai**, Meikang Qiu, Longbin Chen, Ana Wu. Who Moved My Data? Privacy Protection in Smartphones. *IEEE Communication Magazine, 2017.*

Wenyun Dai, Meikang Qiu, Longbin Chen, Ana Wu. DASS: A Web-based Fine-Grained Data Access System for Smartphones. *IEEE International Conference on Smart Cloud 2017.* (Best student paper)

Wenyun Dai, Longbin Chen, Meikang Qiu, Ana Wu. A Privacy-Protection Data Separation Approach for Fine-Grained Data Access Management. *IEEE International Conference on Smart Cloud 2017.*

Meikang Qiu, **Wenyun Dai**, Athanasios Vasilakos. Loop Parallelism Maximization for Multimedia DSP in Mobie Vehicular Clouds. *IEEE Transactions on Cloud Computing, 2016.*

Wenyun Dai, Zhong Ming, Meikang Qiu. Privacy Protection for Preventing Data Over-Collection in Smart City. *IEEE Transactions on Computers, 2015.* (Highly cited paper by Web of Science)

Yibin Li, Min Chen, **Wenyun Dai**, Meikang Qiu. Energy Optimization with Dynamic Task Scheduling Mobile Cloud Computing. *IEEE Systems Journal, 2015.*

Meikang Qiu, Yunjiang Jiang, **Wenyun Dai**. Cost Minimization for Heterogeneous Systems with Gaussian Distribution Execution Time. *IEEE 17th International Conference on High Performance Computing and Communications, 2015.* (Best paper nomination)

Wenyun Dai, Haopeng Chen, Wenting Wang. RaHeC: A Mechanism of Resource Management for Heterogeneous Clouds. *IEEE 17th International Conference on High Performance Computing and Communications, 2015.*

Haopeng Chen, **Wenyun Dai**, Wenting Wang, Xi Chen. A Cloud-Federation-Oriented Mechanism of Computing Resource Management. *IEEE International Journal of Cloud Computing, 2014.*

Wenyun Dai, Haopeng Chen, Wenting Wang, Xi Chen. RMORM: A Framework of Multi-Objective Optimization Resource Management in Clouds. *IEEE Ninth World Congress on Services, 2013.*

WORKING EXPERIENCE & PROJECTS	***Obie Technologies*** NY, Software Engineer & Web Development Manager	**Since 12/2017**

- Full stack implementation of Globie offical website: www.globie.net
- Full stack implementation of internal management platform
- Customer Service system including case tracking, case operating, logging, and API interaction with Globie backend
- Website development management

K12 Alerts NY, Software Engineer Intern   **05/2016 - 08/2016**

- Single Sign On System
- Management Website Rebuild
- Voice assist function in K12 Alerts Android app

Project Testing Management System, *803 Technology Institute, China*   **2013 - 2014**

- Project manager and full stack developer - C# & .NET & Telerik

Traceable Project Management System, *615 Research Institute, China*   **2012 - 2013**

- Project manager and full stack developer - C# & JQuery

Huahan ERP, *Softek Computer Shanghai Ltd., China*   **2012 - 2013**

- Back-end developer using NHibernate - C# & .NET

ACADEMIC SERVICE ***Chair***
IEEE HPCC/ICESS/CSS 2015, NSS 2015, BigDataSecurity 2015-2017, CSCloud 2015-2017.

Reviewer
Journal: Transactions on Computers, Transactions on Cloud Computing, Transactions on Big Data, Transactions on Sustainable Computing, Future Generation Computer Systems, International Journal of Communication Systems, Journl of Systems Architecture.
Conference: IEEE Cloud, IEEE HPCC, IEEE BigDataSecurity, IEEE CSCloud.

TECHNICAL SKILLS
- Programming Languages: Java, C++, C#, NodeJS, JavaScript, CSS, HTML
- Cloud Platforms: OpenStack, AWS, Azure, Docker
- Distributed Systems: Hadoop, Spark
- Database: SQL Server, MySQL, SQLite, MongoDB
- Operating Systems: Unix/Linux, Windows, Mac OS