WEIMING ZHUANG

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⟁ Summary

- Extensive expertise in system technology research and development, architecture design, and technologies spanning distributed systems, financial system technology, design thinking, process design, and optimization.

- Early adopter and open-source contributor to blockchain, mobile, workflow, cloud, and other cutting edge technologies. Authored research papers and delivered presentations at leading academic journals and conferences. Holder of over ten patent filings.

- Played a pivotal leading role in corporate IT R&D strategic planning, solution/system/algorithm design, key program code development, project (portfolio) management, digital transformation, data security, contract negotiation, R&D budget allocation, IT governance, vendor management, hiring, team leadership, and other management responsibilities.

⌸ Experiences

- **[HSBC](#) / Dec 2021 / Lead Full Stack Engineer**

As engineering lead in HSBC Lab I focus on innovative technologies, including CBDC, web 3.0, AI, mobile, regulatory technology, cloud, and others. I lead related strategic planning / daily R&D progress / vendor development / data security / IT governance / business change management / team leadership / hiring and performance reviews. I gained a comprehensive understanding of the banking system in this period. I lead DID project and win the 2024 Reward and Recognition of HSBC.
Successfully initiated and spearheaded external HSBC public projects, including 1) [e-HKD](#); 2) [NFT](#).

- **[Dalian Commodity Exchange](#) / Jul 2020 ~ Dec 2021 / Lead Architect**

As the DCE lab lead, Principal Programmer, I was focusing of blockchain, DApps, and Alliance Governance in Commodity Trading, I successfully led the launch of Dalian Commodity Exchange's blockchain. Additionally, I guided our team to pass the sixth wave of Trusted Blockchain Tests conducted by CAICT(The China Academy of Information and Communications Technology) ([source](#)). My role also encompassed leading strategic planning, budgeting, contract negotiation, digital transformation, team leadership, hiring and performance reviews, and vendor management. Leveraging this blockchain product, the Bank of Communications and COFCO initiated a blockchain warehouse receipt pledge financing project, which is currently operating successfully ([source](#)). I gained a comprehensive understanding of the commodity futures exchange system in this period.

- **[Shanghai Insurance Exchange](#) / Apr 2017 ~ Jun 2020 / Technical Lead**

As the Principal Architect and core Programmer, I led the engineering team to research and develope a blockchain product - SHIE Blockchain, and it successfully passed the CAICT(The China Academy of Information and Communications Technology) rating in the 1st wave. My responsibilities also included directing overall technology strategy and execution, driving innovation in insurance companies, designing

solutions, and leading project delivery with partners. Additionally, I spearheaded strategic planning, budgeting, contract negotiations, digital transformation, team leadership, hiring, and vendor management. Innovation team development the applications on reinsurance, digital insurance policies, digital customer identification in insurance, insurance policy pledges, and supplementary pension insurance assets. We won the first prize in the Shanghai Innovation and Entrepreneurship Competition 2018. I am also featured in SHIE Chain News I and SHIE Chain News II, where my work and insights in the field are discussed. I gained a valuable understanding of the insurance system in this period.

- **Ant Financial** / Jul 2016 ~ Mar 2017 / Blockchain Expert

I am an Architect and Designer, as well as the Principal Coder of the Ant Chain platform, where we developed a application for charitable donations and go live. My expertise also extends to being a Consensus Algorithm Designer and Programmer. Additionally, I had the honor of representing Ant Financial as a speaker at the Blockchain Conference organized by the Ministry of Industry and Information Technology (MIIT) (source). I gained valuable understanding of the large cloud-based microservice system and the culture of internet companies in this period.

- **IBM** / May 2007 ~ Jul 2016 / Innovation consultant, Senior Architect, Development Engineer

In 2016, at the IBM GBS Innovation Center, I was the 1st blockchain developer and consultant. I spearheaded pilot blockchain POCs for ICBC (Industrial and Commercial Bank of China), developed MVPs for the Rural Credit Banks Funds Clearing Center and Postal Savings Bank of China, and provided blockchain training for Bank of China (Hong Kong).

In 2014&2015, within the IBM Innovation Center, I was the coach and developer of IBM's mobile and cloud garage - IBM studio. I was also the iOS developer and designer of pilot mobile MVPs for ICBC and BL.COM.

At IBM, I served as a project manager, developer, and consultant on e-commerce solution/systems, business workflow/process systems, email system, and accounting projects. I have been trained on a comprehensive suite of IBM softwares, including WebSphere, DB2, Lotus Notes and Domino, Rational Test Case/Software Architecture, Mainframe PL/I, etc.. I obtained the IBM certificated Experienced Level in IT Application Consulting & Cross Industry specializations from 2014, and certification of Project Management Professional from 2010. Additionally, I was a volunteer in the IBM CSC Program in October 2010, Ghana Team 5.

🎓 Education

Dalian Maritime University, Obtained Master and Bachelor of Electrical Engineering in 2000 ~ 2007.

📖 Accomplishments

- **Applied patents (total 13)**

  - Delegate model for blockchain transactions (2022_CN 2023_WO)

  - User verification with non-fungible tokens (2023 WO)

  - Method and device for processing service request (2017_CN TW 2018_MY WO ES KR AU MX RU CA PL EP JP 2019_PH US)

  - Method, apparatus, and system for blockchain consensus (2017_CN TW 2018_MX KR WO SG EP AU US JP CA BR RU 2019_ZA PH AU 2020_US 2021_US)

- [Asynchronous multiparty data interaction method based on block chain system and storage medium (CN)](#)

- [Blockchain common recognition method based on Raft algorithm (CN)](#)

- [Method and system for replacing leader of blockchain network](#)

- [Architecture design and implementation of blockchain hot upgrading](#)

- [Device, method and system for realizing blockchain, and medium](#),

- [Insurance underwriting method and system and computer storage medium](#), etc.

- **Publications**

  - [Research on Blockchain Application in Insurance Industry](#)

  - [Blockchain Practical Application Methodology in Small and Middle Insurance Enterprise on "Modern Bankers"](#)

- **Credential**

  - Secure Code Warrior certification, orange belt-highest level, 2022

  - Certificated expertise of Dalian 2020 urgent need for talent certification programs

  - PMP Credential (2010-2013), PMP@ #: 1465859

  - Obtaining IREB CPRE Credential from 2012

  - IBM certificated Experienced Level in IT Application Consulting & Cross Industry specializations, 2014

- **Honor & Award**

  - First Prize of Outstanding Research Achievements in the Reform and Development of Shanghai's Financial Industry 2018-2019

  - First prize of 2018 Shanghai Blockchain Innovation Competition

  - Leader of team passed the blockchain function and performance rating by CAICT(The China Academy of Information and Communications Technology), 2018, 2021