

Jing(Jean) Li

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<https://github.com/Jean424?tab=repositories>

Qualifications

- 3 years in software design and development.
- Strong skills in C/C++, Python, and PL/SQL.
- Experience with blockchain, and distributed ledger platform.
- Experience with version control, DevOps, and CI/CD.
- Knowledge of machine Learning.
- Knowledge of Kubernetes and containerization.

Education

2009-2012 **M.S.** Electrical Engineering, University of Electronic Science and Technology of China
2005-2009 **B.S.** Electrical Engineering, University of Electronic Science and Technology of China

Experience

2009-2012 Graduate Research Assistant University of Electronic Science and Technology of China

Certificates

2021 Deep Learning Specialization

Software Skills

- C/C++, Python, and PL/SQL.
- Kubernetes and Docker.
- Git, and Jenkins.
- Microsoft Office skills.

Software Products

- [1] Smart Substation Digital Simulation and Wireless Test Platform, 2012.
- [2] Communication Protocol Stack (Modbus and IEC 61850) for Multiple Feeder Management Relay, 2010.

Project Experience

Distributed Energy Trading Platform based on Hyperledger Fabric 2020-2021
- As a tech lead of small group, designed the system architecture and implemented a blockchain based distributed energy trading platform. The platform is implemented in Docker with the open-source distributed foundation Hyperledger Fabric, and it is using Kubernetes for automating

deployment, and scaling the containerized the trading applications (buy/sell/balance check/wallet/user management). Project involved Python and C++ programming. Version control is based on Git and build server is based on Jenkins.

Smart Substation Simulation and Wireless Test Platform 2010-2012

- As a software developer, implemented a novel hardware-in-loop system to benchmark the performance of the Intelligent Electronic Devices (IEDs), based on the Wireless Time Synchronization and EMTP simulation. Microsoft SQL Server is used in the project for storing simulation data and user management. The project involved C/C++ and SQL programming, and the platform is developed based on Visual Studio C++ with MFC. Version control is based on SVN.

Communication Protocol Stack for GE Relay 2009-2010

- As a software developer, developed a Modbus communication protocol stack and evaluated the performance of the protocol stack. Apache HTTP server is used to provide web services in the project. The project involved C/C++ programming. Version control is based on the SVN and developed using Visual Studio C++.

Publications

Journals:

- [1] **Jing Li**, Qi Huang, Fengkai Hu, Shi Jing, "Performance Testing on GOOSE and MSV Transmission in One Network", *Energy Procedia*, vol. 12, pp. 185-191, 2011.
- [2] Fengkai Hu, Qi Huang, Shi Jing, **Jing Li**, "Design and Implementation of Substation Communication Software for IED", *Power System Protection and Control*, vol. 39, pp. 132-137, 2011.

Lecture

- [1] "Performance Testing on GOOSE and MSV Transmission in One Network", IEEE International Conference on Smart Grid and Clean Energy Technologies, Sept. 2011.