Jing(Jean) Li

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Qualifications

- 3 years in software design and development.
- Strong skills in C/C++, Python, PostgreSQL and PL/SQL.
- Experience with version control, DevOps, and CI/CD.
- Experience of containerization, docker and Kubernetes.
- Experience with blockchain, and distributed ledger platform.
- Knowledge of AWS and Azure.
- Knowledge of network communication protocols.
- Knowledge of machine Learning.
- Demonstrated experience in defining business scope and requirements of new developments.
- Demonstrated experience in Hardware Testbed project with hardware-in-the loop simulation.

Experience

Distributed Energy Trading Platform based on Hyperledger Fabric [Side Project] 2021-2022

- 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 [Graduate Research Assistant] 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 [Graduate Research Assistant] 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++.

Education

2022-	**Bootcamp**	University of Washington
2009-2012	**M.S.**	University of Electronic Science and Technology of China
2005-2009	**B.S.**	University of Electronic Science and Technology of China

Certificates

2021 Neural Networks and Deep Learning
2021 Sequence Models
2021 Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization
2021 Structuring Machine Learning Projects
2021 Convolutional Neural Networks

Software Skills

- C/C++, Python, and PL/SQL.
- Docker and Kubernetes.
- Git, and Jenkins.
- Microsoft Office skills.
- Hyperledger Fabric.
- Apache HTTP Server.
- AWS, Azure.

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.

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.