Wei-Chen Chen

Bellevue, WA
(425) 765-0914
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Open to senior developer roles in domain including system infrastructure, backend, or data storage

Experience

System Software Engineer
2020-present

Devicebook, Bellevue, WA, USA

- Lead to bring up wireless interfaces (Wi-Fi, Bluetooth, and other Wireless modules) in ARM-based platform
- Design embedded system with Yocto Project and stabilize Linux kernel for product

Software Engineer II
2016 – 2020

Microsoft, Redmond, WA, USA

- Developed 5G network features for kernel MBIM driver and contributed to Wireshark opensource project regarding MBIM protocol parser
- Refactored cellular network emulation framework by exposing Interoperability between C++ and C# such that it empowers internal developer teams to improve test coverage to >90%
- Designed and improved Windows WinRT API for Mobile Broadband

Software Engineer Intern
Summer 2015

Google, Mountain View, CA, USA

- Developed machine learning model to recognize the indoor significant Wi-Fi footprint with low recall (~80%) and high precision (>90%)

Graduate (Teaching/Research) Assistant
2014 – 2016

University of Wisconsin-Madison, Madison, WI, USA

Teaching Assistant

- Served in the data structure course at Epic System for training engineers

Research Assistant

- Involved in a research of large-scale literature corpus data modeling and visualization

Research Assistant
2012 – 2014

Intel-NTU Connected Context Computing Center, Taipei, Taiwan

- Implemented real-time systems, which Integrated heterogeneous system components such as wireless sensor network devices, actuators, and servers
- Designed the web interface for information visualization and user feedback collection in an interactive smart home environment

Education

University of Wisconsin–Madison
2014 – 2016

Master of Science – Computer Sciences

National Taiwan University
2007 – 2011

Bachelor of Science – Computer Science and Information Engineering

Skills

Programming
C, C++ (Modern C++11/14/17), C#, Java, Python, JavaScript, Rust

Platforms
Linux, Mac OSX, Windows, Embedded System

Framework/Tools/Domain Knowledge
Git, Jenkins, gRPC, WSL, Network Protocols

Honors

Hong-Wen and Cheen Liao Graduate Scholarship — 2014
Granted by University of Wisconsin–Madison

Presidential Award — 2009
Ranked within the top 5% GPA in the CS Dept. of National Taiwan University

Publications

Context-Aware Energy Saving System with Multiple Comfort-Constrained Optimization in M2M-based Home Environment
*Ching-Hu Lu, Chao-Lin Wu, Mao-Yuan Weng, **Wei-Chen Chen**, and Li-Chen Fu*
IEEE Transactions on Automation Science and Engineering, vol.PP, no.99, pp.1, 2015

An Efficient Data Storage Method of NoSQL Database for HEM Mobile Applications in IoT
***Wei-Chen Chen**, Ya-Hung Chen, Chao-Lin Wu, and Li-Chen Fu*
IEEE International Conference on Internet of Things, 2014

Anticipatory Reasoning for a Proactive Context-aware Energy Saving System
*Chao-Lin Wu, **Wei-Chen Chen**, Ching-Hu Lu, and Li-Chen Fu*
IEEE International Conference on Internet of Things, 2014

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