Yurui Zhou

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EDUCATION

CARNEGIE MELLON UNIV

Pittsburgh, PA | Dec 2014
MS in Electrical Computer Engineering
Cum. GPA: 3.43 / 4.0

TSINGHUA UNIV

Beijing, China | July 2013
BS in Mechanical Engineering
Cum. GPA: 87.45 / 100

COURSEWORK

GRADUATE

Cloud Computing
Computer Network
Network Security
Wireless Network
Machine Learning
Distributed System
Computer Architecture
Embedded Realtime System
Distributed Embedded System

UNDERGRADUATE

Data Structure
Operating Systems
Computer Hardware Technology
Circuit System Design + Practicum

SKILLS

PROGRAMMING

Over 10000 lines:
C • Python • Java

Over 5000 lines:
C++ • C#

DEVELOPMENT

Proficient:
Android • Xamarin • Embedded System

Familiar:
Compiler

OBJECTIVE

I'd rather play a crucial and flexible role in a small, agile and stressful team than work as replaceable gear in a established giant one. I don't want to repeat myself day by day and am looking for opportunities that expose me to interdisciplinary challenges. I love building stuff from scratch, solving problems all the way through and growing up with the product.

EXPERIENCE

Software Engineer I Microsoft Band

Oct 2015 – Now | Redmond, WA

- Microsoft Health Platform: Design and implemented the Android side feature to provide a better user experience across Microsoft Band, Microsoft Health Cloud and Microsoft Health Android App.
- Microsoft Band Firmware: Design and implemented new Microsoft Band feature to improve user experience and boost market performance

Software Engineer I Microsoft, OSG, WINCXE, Siplat

April 2015 – Oct 2015 | Redmond, WA

- Servicing bluetooth driver stack for Windows 8.1 and Windows 10.
- Designed and Implemented a Bluetooth Device Simulator so that a virtualized bluetooth devices can be used to quickly validate Bluetooth Drivers.

Research Assistant I Carnegie Mellon University, ECE

Feb 2014 – August 2014 | Pittsburgh, PA

Prototype a postural monitoring device that will empower seniors and their healthcare providers to prevent falls and avoid traumatic injuries.

- Designed the device circuit board to integrate micro controller, wireless bluetooth and inertial sensors.
- Assembled and functional tested (lab and field) of the wearable inertial measurement system.
- On board Programming on micro controller for realtime data collection.

Engineer I Tsinghua University, DPIM

Jan 2013 – Dec 2013 | Beijing, China

Build up a robust sensor network inside mine tunnel for real time management and to assist rescue operation in case of emergency.

- Designed the device circuit board to integrate micro controller with high power antenna.
- On board programming for dynamic network construction and management.
- Implemented the localization algorithm for realtime sensor localization.

PROJECTS

BITCOIN SMART PROPERTY Head Graduate Research

Jan 2014 – May 2014 | Pittsburgh, PA

In this project we proposed a solution to minimize trust needed in secured loans and property managing using a peer-to-peer bitcoin contract.

- Designed the transaction process and protocol.
- Designed the distributed contract program based on bitcoin protocol.
- Implemented the distributed contract program and published the contract blocks to bitcoin network.