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ETHAN HAO

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EMPLOYMENT

Senior Software Engineer   **DePaul University**   **July 2015-June 2017**

- Implemented the video recording project which can record MP4 video format directly and meanwhile provide the video source to the monitoring platform.
- Implemented the classroom monitoring platform which can monitor video and audio of up to 100 classrooms.

Software Architect   **China Sport Lottery Technology**   **April 2014 – July 2015**

- Developed the distributed lottery trading system based on Linux, Review all codes and optimize some codes.
- Working on some research about improving the architecture of this system and making it easy to manage.

Senior Software Developer   **China Futures Group**   **Nov 2012 – April 2014**

- Lead a team to develop the Futures Trading System for Enterprises based on Windows platform. I am in charge of the architecture and the core components.
- Lead a team to develop the Risk Management of Futures Trading System for Enterprises. We can use this product to remove of reject all orders and to set the threshold of triggering the risk.

Senior Software Developer   **Ensurebit**   **Aug 2005 – Nov 2012**

- Lead a team to implements those projects which Lenovo outsourced, mainly all projects were focusing on improving the user experience of their Laptop, like Veriface, Easycapture, Idealife, Ikey Security solution, etc.
- Developing the own product PowerShadow (http://download.cnet.com/Power-Shadow/3000-2094_4-10359673.html), a kind of virtual system of Windows.

Software Developer   **Lenovo**   **Aug 2003– Aug 2005**

- Implemented the virtual disk driver based on Window 98 using VXD driver framework
- Implemented the Blowfish and MD5 algorithm using C++.

EDUCATION

Chicago, IL   **University of DePaul**   **Fall 2015 – Jun 2017**

- M.S.E. in Software Engineering. GPA: 3.9 so far.
- Graduate Coursework: Agile; Software Architecture; OBJ-oriented; Distributed System; Database programming; IOS development etc.

Xi An, China   **Northwestern Polytechnic University**   **Fall 1999 – Jun 2003**

- B.S.E. in Software Engineering.

Projects

- **Lottery Trading System** (2014 – 2015). A very complicated distributed system based on Linux and focused on high performance and availability lottery trading. C++
- **Futures Trading System for Enterprises** (2013). A system which let all the staffs share one exchange account to do futures trading. And it has its own settlement subsystem. C++,C#
- **Risk Management system for Futures trading system** (2013). A risk management system can prevent from something bad happening by some predefined rules.
- **DePaul Classroom Monitoring Platform** (2016). A direct way to monitor all the classroom. C++, DirectShow, Windows Media Format, Windows Media Foundation.
- **VeriFace** (2005-2012). A windows desktop application which is pre-installed on Lenovo laptops. C++, DirectShow, D2D.

Languages and Technologies

- C++; C; C#.NET; PL/SQL; JavaScript,;
- Redis, ZooKeeper, Message Queue,COM,TCP/IP,Socket etc.