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ETHAN HAO

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EMPLOYMENT

Student Employee   DePaul University   **July 2015 - June 2017**
- Implemented a video recording project which can directly record MP4 video format as well as provide the video source to the monitoring platform.
- Implemented the classroom monitoring platform which can monitor the video and audio of up to 100 classrooms.

Software Architect   China Sport Lottery Technology   **April 2014 - July 2015**
- Developed a distributed lottery trading system based on Linux. Reviewed all codes in addition to performing code optimizations.
- Researched improvements to the architecture of this system and made it more manageable.

Senior Software Developer   China International Futures   **Nov 2012 - April 2014**
- Led the development team for the Futures Trading System for Enterprises based on Windows platform. Supervised implementation of the architecture and the core components.
- Led the development team for the Risk Management of Futures Trading System for Enterprises which can remove or reject all orders and set the threshold of triggering the risk.

Senior Software Developer   Ensurebit   **Aug 2005 - Nov 2012**
- Led a team to implement projects which Lenovo had outsourced. Projects were focused on improving the user's experience of his Laptop. Similar to Veriface, Easycapture, Idealife, Ikey Security solution, etc.
- Developed the custom product PowerShadow (http://download.cnet.com/Power-Shadow/3000-2094_4-10359673.html), which extended existing Windows security functionality.

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. Current GPA: 3.9/4.0.

Xi An, China   Northwestern Polytechnic University   **Fall 1999 - Jun 2003**
- B.S.E. in Software Engineering.

Projects

- **Lottery Trading System** (2014 – 2015). Complex distributed system based on Linux and focused on high performance and availability lottery trading. C++
- **Futures Trading System for Enterprise** (2013). A system which lets all the staff share one exchange account to do futures trading. Also includes its own settlement subsystem. C++,C#
- **Risk Management System for Futures Trading System** (2013). A risk management system which can prevent improper futures trading by adhering to predefined rules.
- **DePaul Classroom Monitoring Platform** (2016). A direct way to monitor all of the classrooms. 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.