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# ETHAN HAO

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## EMPLOYMENT

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| <b>Senior Software Engineer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>DePaul University</b>              | <b>July 2015 - June 2017</b>  |
| <ul style="list-style-type: none"><li>Implemented a video recording project which can directly record MP4 video format as well as provide the video source to the monitoring platform.</li><li>Implemented the classroom monitoring platform which can monitor the video and audio of up to 100 classrooms.</li></ul>                                                                                                                                                                                                    |                                       |                               |
| <b>Software Architect</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>China Sport Lottery Technology</b> | <b>April 2014 - July 2015</b> |
| <ul style="list-style-type: none"><li>Developed a distributed lottery trading system based on Linux. Reviewed all codes in addition to performing code optimizations.</li><li>Researched improvements to the architecture of this system and made it more manageable.</li></ul>                                                                                                                                                                                                                                          |                                       |                               |
| <b>Senior Software Developer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>China Futures Group</b>            | <b>Nov 2012 - April 2014</b>  |
| <ul style="list-style-type: none"><li>Led the development team for the Futures Trading System for Enterprises based on Windows platform. Supervised implementation of the architecture and the core components.</li><li>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.</li></ul>                                                                                                         |                                       |                               |
| <b>Senior Software Developer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Ensurebit</b>                      | <b>Aug 2005 - Nov 2012</b>    |
| <ul style="list-style-type: none"><li>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.</li><li>Developed the custom product PowerShadow (<a href="http://download.cnet.com/Power-Shadow/3000-2094_4-10359673.html">http://download.cnet.com/Power-Shadow/3000-2094_4-10359673.html</a>), which extended existing Windows security functionality.</li></ul> |                                       |                               |
| <b>Software Developer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Lenovo</b>                         | <b>Aug 2003 - Aug 2005</b>    |
| <ul style="list-style-type: none"><li>Implemented the virtual disk driver based on Window 98 using VXD driver framework.</li><li>Implemented the Blowfish and MD5 algorithm using C++.</li></ul>                                                                                                                                                                                                                                                                                                                         |                                       |                               |

## EDUCATION

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| <b>Chicago, IL</b>                                                                                    | <b>University of DePaul</b>                | <b>Fall 2015 - Jun 2017</b> |
| <ul style="list-style-type: none"><li>M.S.E. in Software Engineering. Current GPA: 3.9/4.0.</li></ul> |                                            |                             |
| <b>Xi An, China</b>                                                                                   | <b>Northwestern Polytechnic University</b> | <b>Fall 1999 - Jun 2003</b> |
| <ul style="list-style-type: none"><li>B.S.E. in Software Engineering.</li></ul>                       |                                            |                             |

## Projects

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- 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

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