**CHEN LIU**

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**Summary**

* **3 years** of experience in Analysis, Design, Development, Testing, Maintenance of Application software and hardware on different platforms.
* Oracle Certificated Java Programmer (**OCJP 8**).
* Experience in **J2EE** technologies and frameworks such as **Spring Boot, Hibernate/JPA, Struts2, JSP, JDBC, XML, HTML, CSS** and **JavaScript**.
* Working experience with **MVC** and **MVVM** architecture on desktop application development.
* Strong foundation in **Linux** (Arch) architecture and **Kernel** build process with **Bash** script.
* Hands-on experience with **RDBMS** and **NoSQL** such as MySQL, Oracle and Mongo DB.
* Background in **Cybersecurity** skills including penetration test, reverse engineering.
* In-depth **Communication Protocol** and **Signal Processing** knowledge between software and hardware including SPI, CAN, etc.
* Fast learner, team player, and comfortable working in **Cross-Functional** team.

**Working Experience**

**Research Engineer - AlphaSense Inc.**  *Oct. 2016 – Present*

* Lead robotic project and build 6 Axis Stepper Motor Robot with Control App
* Implement Forward and Inverse Kinematic Model with Matrix-Vector library for Robot App
* Upgraded UI and then published beta version LITHO PCB Printer App , successfully demoed the whole system in two conferences
* Built STL, Gerber file phasing API for generating pattern and image
* Tested and refined calculation algorithm for NDE sensor to improve the precision of measurement
* Designed, layout, fabricated and tested Printed Circuit Boards according to system requirement
* Defined environmental test specification and led the testing, data acquisition (DAQ) and provided data-driven recommendations
* Experienced with industrial robot such as ABB-IRB140, UR-10 and Keba PLC robot controller

**Software Engineer Intern - B&WTek Inc.** *Jun. 2016 – Sept. 2016*

* Designed UI for LIBS handheld device using QT platform
* Worked on Spectrometer Windows App and fixed over 20 bugs using MSVS WPF
* Documented the instrumental software reports and presented to non-technical stakeholders

**Instructor - UDel K-12 Engineering** *Jun. 2015 – Sept. 2015*

• Proposed strategies and led students in Python and Raspberry Pi based projects

**Technical Skills**

* **Programming Languages:** Java, JavaScript, Python, C++, C#, HTML, XML, CSS, SQL, Bash
* **OS/IDE/Frameworks:** Linux, OS, Windows, Eclipse, IntelliJ, Visual Studio, AWS, Git, QT
* **Dev Areas:** Desktop Application, Web Application, Embedded System
* **Others:** LabView, Altium Designer, SolidWorks, MATLAB

**Education**

University of Delaware, Newark, DE *Feb. 2015 – Jun. 2016*

* M.S. in Electrical and Computer Engineering (GPA: 3.8/4.0)

China University of Mining & Technology (CUMT), Xuzhou, Jiangsu *Sept. 2010 – Jun. 2014*

* B.S. in Electrical Engineering (GPA: 3.6/4.0)