**CHEN LIU**

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**Objectives**

Looking for a software development career that will combine my knowledge in mathematics, programming and research skills. Pursuing a dedicated, collaborative and approachable team.

**Skills**

* Java (J2SE/ J2EE)
* RESTful API
* JavaScript
* Spring Boot
* Linux (bash)
* MVC/ MVVM
* MySQL/ Oracle
* VMware
* DevOps

**Projects**

**Integrating Spring Boot and Spring JDBC**

* Established Spring framework JDBC database system

**MEAN-Stack & role-based access control (RBAC) forum with less vulnerabilities**

* Implemented JS frame architecture for both front and backend forum website
* Applied third party applications to obtain limited access with OAuth protocol
* Experienced with different JavaScript framework including AngularJS, React, NodeJS

**Simulation of “Stack Overflow” database design**

* Completed full design document including E-R, RDB diagram and MySQL based DB system
* Imported, exported and manipulated large data sets in multimillion-row databases

**Arch Linux kernel build and Raspberry Pi GPIO drive**

* Explored Linux construction on the kernel module level to write the basic drivers for Arch Linux system
* Completed GPIO controls for seven segment displays on Raspberry Pi by writing the kernel file

**Home health monitor system mobile App design**

* Introduced a MVC model and built a home health monitoring system to simplify the healthcare system and reduce the maintenance budget in documentation level

**Experience**

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

* Rapidly prototyped new instrumental software for research project experiment use
* Define environmental test specification and led the testing, data acquisition (DAQ) and provided data-driven recommendations

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

* Designed embedded operating system for spectrometer devices using Java and C#
* Created test unit for existing program and contributed to technical documentation

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

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

**Education**

Master of Science Electrical and Computer Engineering (GPA: 3.8/4.0) *Feb. 2015 – Dec. 2016*

* University of Delaware, Newark, DE

Bachelor of Science Electrical Engineering (GPA: 3.6/4.0) *Sept. 2010 – Jun. 2014*

* China University of Mining & Technology (CUMT), Xuzhou, Jiangsu