**HANRUN LI**

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**SUMMARY:** Passionate, innovative and committed software engineer with 2 years proven software development experience in C++, Java, Python, PHP, and JavaScript. Proficient in object modeling technologies and Software Development Life Cycle management.

**PROFESSIONAL EXPERIENCE:**

**Barclays, Whippany, NJ Jul 2018 - Present**

*Software Engineer*

* Software development for the Barclays Command Center Global Innovation and Service apps, including banking services dashboards, major incident management system, etc.
* //Integrated ThousandEyes API to Command Center website, monitoring Barclays services traffic
* Developed wallboard layout management system which controls dashboards monitored on CC wallboard, it then become one of the Command Center Service Control Managers’ favorite tools
* Built request and bridge management system with FullCalendar API utilizing time interval management algorithms, the tool is then widely used among Service Recovery Managers
* Contributed to content migration from Share Point to Command Centre website
* Migrating Command Center Server from internal ESX environment to AWS which speed up server patching and feature release from 3-5 hours to around 30 minutes
* Deploying, patching and updating UAT server and Prod server, developing resiliency and DR solutions

**Environment:** PHP, Python, JavaScript,ESX, AWS, Windows, SharePoint, Apache, MySQL

**Hanlon Financial Systems Center, Hoboken, NJ Feb 2017 - May 2018** *Full Stack Developer*

* Built Core Client library backing Qt Client, Web Client and Console Client
* Established communication between PHP and C++, used Thrift to perform cross-language procedure calls and used ZeroMQ to transfer trading data
* Utilized React to push real-time pricing data to JavaScript frontend via WebSockets, improve data refresh rate on the webpage from 1 second to real-time
* Wrote auto-install and monitor scripts supporting nested options, using Bash Shell and Cron
* Maintained three Ubuntu and one Windows remote servers, including setting up developing environment, service monitoring and project deploying
* Built trading strategy development environment module for traders to develop and test trading strategies in C++ and Python

**Environment:** C++, PHP, JavaScript, Ubuntu, Windows, NGINX, PostgreSQL

**EDUCATION:**

**Stevens Institute of Technology, Hoboken, NJ Aug 2016 - May 2018**

*Master of Science in Computer Science, GPA: 4.0/4.0*

**Southern University of Science and Technology, Shenzhen, China Sep 2012 - Jun 2016**

*Bachelor of Engineering in Electrical Engineering,**GPA: 3.36/4.0*

**SKILLS:**

**Programming Languages:** C++, C, Python, Java, PHP, JavaScript

**Database Server:** PostgreSQL Server, MySQL Server, MongoDB

**Web Technologies:** HTML, CSS, NGINX, Apache, Node.js, CakePHP, jQuery, Bootstrap, Composer, React

**Tools:** Ubuntu, Windows, Mac OS, Amazon AWS (EC2), Docker, Payara (GlassFish), Git, Apache Thrift, ZeroMQ

**PROJECTS:**

**Ingredients Inspection Management Platform Sep 2017 - Nov 2017**

*Developed a product ingredients inspection management system using CakePHP framework on EC2*

* Developed Allergen Statement module handling information input, information validation, statement generation and report printing
* Resolved graphical user interface bugs caused by various display media properties and CSS conflicts
* Moved Database server and PHP server to separate Docker containers, improved stability and scalability
* Built software development pipeline including project building, unit tests and API tests

**Enterprise Cloud Platform Architecture & Design May 2017 - Jul 2017**

*An EC2 based enterprise software platform supported by Payare server and PostgreSQL database*

* Developed a command line FTP tool implementing Java Remote Method Invocation API
* Deployed a RESTful Distributed Hash Table on EC2 platform along with a message application
* Implemented Amazon Machine Image to maintain a constant backup of prototype instance