SHENGHUI YANG

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EDUCATION

University of Pittsburgh, Pittsburgh, PA

2017 – Present

M.S. in Information Science (IS), GPA 3.87/4.00, expected May. 2019

East China University of Political Science and Law, Shanghai, China

2013 - 2017

B.S. in Computer Science (CS), GPA 3.30/4.00

EXPERIENCE

Clinical and Translational Science Institute Pittsburgh, PA

Jun. 2018 – Present

Summer Intern Manager: Johne Rzodkiewicz Title: Full Stack Developer

- Setup Event Registration System using ASP.NET and Database using MSSQL
- Optimize network speed by using React.JS and simplify DB queries (Time Cosuming: 50%)
- Build up CMS (content management system / Umbraco) for internal usage

CyRen Lab Pittsburgh, PA

Mar. 2018 – Present

Research Manager: David Thaw Title: Research Assistant

- Deploy multiple systems on Xen and used Snort and pfSense as intrusion prevent and detect system to build a distributed honeynet
- · Use methodology of machine learning to emulate human's activity towards a website to confuse hacker

Zhong Ta Network Technology Co., Ltd Shanghai, China

Jun. 2016 – Sept. 2016

Summer Intern Manager: Bingbing Wang Title: Web Developer

- · Build up ThinkPHP framework for backend program and partitioning tables to improve searching speed
- Normalize tables to third normal form to prevent massive loading
- Serve as departmental Linux Systems Administrator, develop shell scripts to improve working efficiency

PROJECTS

Tiny Web Server

Jun. 2016 – Sept. 2016

C, Linux Individual Projects

Brief introduction: A http Server coding in C, Improved it by adding concurrency feature

- Fully support for serving multiple client with static and dynamic pages at the same time
- Allow people writing dynamic web page using C programming language

Operating System Kernel

Sept. 2017 - Nov. 2017

C, Assambly Individual Projects

Brief introduction: Fully functional OS Kernel like Unix, based on knowledge learned in CS:APP

- Deploy memory management (include DMA), file system (FAT), process management, and hardware drivers (e.g. keyboard)
- Optimize file system by using tree structure, making time complexity of searching file be O(log N) rather than O(N)
- · Add security properties to file system and memory management in case of unauthorized access and bufferoverflow

Cryptology Suite

Dec. 2017 - Mar. 2018

Python Individual Projects

Brief introduction: Based on Cryptology Algorithms, developed a suite for encryption and decryption

- Provide DES, 3-DES, AES and PKI (RSA) cryptosystem within this suite, also with Message-Digest Algorithm (MD5, SHA-256)
- Optimize the program using table lookup instead of calculating (Time Consuming: 5%)

SKILLS

- Programming Languages: C == Python > Java == C# == shell > HTML == JavaScript == PHP
- Framework: Spring(Java), ThinkPHP(PHP), Express(Node.js), Django(Python), ASP.NET(C#)
- Cloud: MapReduce, Big Table, Cassandra, Hadoop, Pig Latin, Spark

i Miscellaneous

• • • https://github.com/supermartinyang