Xiaodong Zhang

Seeking SWE Full-time Job xiaodong_zhang@brown.edu (401)-241-9373 Providence, RI

EDUCATION

Brown University

Providence, RI

M.S. in Computer Science GPA 4.0 Anticipated Graduation: May. 2020

Harbin, China

Harbin Institute of Technology

Sept. 2012 - July. 2014

M.S. in Computer Science

Harbin Institute of Technology B.S. in Computer Science

Harbin, China

Working Experience

Aug. 2008 - July. 2012

Facebook (C++/Python)

Seattle, WA

Software Engineer Intern, Stream Processing Team

May. 2019 - Aug. 2019

- Synthetic Data Generation: Built a synthetic data generation tool in C++ which is capable of producing complex data for 9 different types at high throughput (up to 200MB/s) that can form the input to streaming pipelines.
- Performance Testing: Extended the testing framework to enable performance measurement and regression detection for stream processing pipelines. Synthetic data generator is used to feed high throughput input to streaming pipelines undergoing testing.

Center for Computation & Visualization

Brown University

On campus Intern, Linux Cluster Support

Sep. 2018 - Nov. 2018

- Cluster Performance Measurement: Tested various code types and architectures on CentOS Sandy/Ivv computing nodes. Compared performance of programs running on RedHat7 Sandy/Ivy computing nodes.
- Linux Support: Handled IT tickets related to Linux Clusters.

Shanghai Pudong Development Bank (C#)

Shanghai, China

Software Engineer/Project Manager

Aug. 2014 - Aug. 2018

- o Domestic Teller System: 1/ Implemented new features to check permissions and force tellers to do reconciliation. 2/ Upgraded reconciliation system by doing automatic account checking, which reduced at least one hour for every teller in reconciliation everyday.
- Branch Teller Applications: 1/ Designed a framework to handle message passing, teller devices and authorizations for branch applications; 2/ Developed a tool to translate terminal-based applications to GUI applications in WPF, and automated deployment for testing by creating a website in **Django**; 3/ Led 39 branches migrating 1200+ applications to the new front-end system, accelerated this task by 40%, which saved 3 million RMB for development.

Projects

Wennix OS (C)

Feb. 2019 - Apr. 2019

Project from CS169 at Brown

• Implemented an OS in C which contains processes and threads management, drivers for tty and disk, virtual file system, System V File System and virtual memory; Implemented system calls like read, write, fork, etc. Capable of running binary files in user mode and handling page fault.

Poker Game AI Platform: Wild Escape (C++)

Sep. 2015 - Nov. 2015

Software Engineer at SPDB

• Designed and built a poker game service in C++ which is responsible for validating cards and organizing clients; Implemented template program in client side, which handles messages from/to server, for users to add AI algorithms.

PUBLICATION

• Wang H, Zhang X, Li J, et al. Productseeker: entity-based product retrieval for e-commerce[C]//Proceedings of the 36th international ACM SIGIR conference on Research and development in information retrieval. ACM, 2013: 1085-1086.

RELEVANT SKILLS

• C, Modern C++, Python, Linux, Boost/folly