Shangxing Sun

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EDUCATION BACKGROUND

• Duke University May 2018

- Master of Science in Electrical and Computer Engineering GPA: 3.77/4.00

Chongqing University

June 2016

- Bachelor of Electrical Engineering Ranking: 14/438 GPA:3.70/4.00

The University of Wisconsin-Milwaukee Feb 2016 - May 2016

Exchange Program for the Graduation Project under the grant of China Scholarship Council

SKILLS

C, C++, Swift, Java, python, VHDL, SML

Linux, Matlab, git, vim, postgres, Django, Amazon S3, FUSE, Android Studio, Firebase, Quartus IIM

INTERNSHIPS AND EMPLOYMENT EXPERIENCE

TA for Course: Engineering Robust Server Software

Jan 2018 - May 2018

TA for Course: Fundamentals of Computer Systems and Engineering

Sept 2017 - Dec 2017

Graduate Program Administration Website for Duke University

May 2017 - July 2017

https://gitlab.oit.duke.edu/ss811/ECE GRAD website.git

- Developed a management website in which course selection plans can be conveniently uploaded by student and managed by faculty
- Completed design of most User Interfaces and functions of the front end by using JavaScript and HTML and backend functions by using Django

PROFESSIONAL RESEARCH AND PROJECTS

Tiger Compiler Implemented in SML, course project, Durham NC

Jan 2018 - May 2018

Gitlab link: https://gitlab.oit.duke.edu/ss811/TigerCompilerInSML.git

- Developed a Tiger compiler which is implemented in SML following Andrew W. Appel's "Modern Compiler Implementation in ML"
- The compiler can successfully parse Tiger programs and translate them to MIPS
 assembly code after the process of parsing, semantic analysis, IR, IS and register allocation
- Cloud Cache Tier Server, course project, Durham NC

Sept 2017 – Dec 2017

gitlab link: https://gitlab.oit.duke.edu/ss811/EnterpriseStorageArchitectureProject.git

- Developed a cloud cache server to automatically cache files from cloud with SSD using FUSE (File system in user space) (C++)
- Athena App: An Iphone Application for Sport Grouping, course project, Durham NC

Sept 2017 – Dec 2017

- Developed an application which allows users to match with opponents based on skill level, location and time (Swift)
- Designed backend functions to communicate between firebase and the application
- DukeGather: An Android App for Ride Sharing, course project, Durham NC

January 2017 - May 2017

- Developed a Java ride sharing app allowing users to post ride sharing information, form groups and send messages and pictures in the group (Java)
- Implemented user interface, message sending function, and database functions using firebase
- Mini UPS Website and Backend Server, course project, Durham NC

April 2017 - May 2017

- Developed a mini UPS backend server which realizes asynchronous communication with "Amazon" partner and world simulation to simulate delivery system (C++)
- Developed a matching website for users to check delivery status (Python/Django/Javascript)