Sun Sijie

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EDUCATION

Chemistry & Environmental Engineering
2012.9 — 2016.6

Beihang University

Bachelor Degree.

Computer Science
2016.9 — 2019.4

Beihang University

Master Degree. Embedded System Laboratory. Rank first in the entrance examination. Graduation project is to build a time-triggered multi-kernel OS based on Barrelfish.

PROJECTS

Main Projects :

Zhao Hua Xi Shi P2P Sharing Website（Team Project）
PHP / JavaScript / HTML

A P2P resource sharing website with more than 8k members. I contributed more than half of the code, and was the main maintainer of the web server.

FreeCROS Kernel（Personal Project）
C++ / x86 Assembly / CMake

A C++ micro kernel operating system, which supports SMP, FAT32 filesystem, First-Fit memory management, message passing and signals.
Use a C++ library I build from scratch, which includes a regular expression engine and many data structures such as vector, map and list.

KMR（Team Project）
Go / Bash

A golang Map/Reduce framework based on kubernetes. Support DAG job schedule. Support many object storage system such as Aliyun OSS and RADOS.

Others :

btags: a tool to generate tags file from DWARF debug info (python, uploaded in PyPI)
A Book Info Spider (Python);
WeChat JumpGame Robot (Python);
A PL/0 Compiler(Java);
Many scripts to do repeat works (JavaScript, Python, Shell);

WORK EXPERIENCE

Guangzhou Jianxing Co., Ltd.   2015.7 — 2015.10

PHP Software Engineer

Job Description

Develop and maintain the backend system of a Wechat app. The system
was developed based on Yii2 framework.
Work with Redis and PostgreSQL.

Beijing Naturali Co., Ltd.   2017.7 — 2018.2

Backend Software Engineer

Job Description

Develop and maintain KMR which is a golang Map/Reduce framework. It's
widely used in company, and open source now.
Develop many scripts and tools for other team members.
Maintain a small-scale GPU cluster, mainly about Kubernetes and Ceph.
Design and develop the frontend management website for the product of
the company. Website URL: https://developer.naturali.io

IT SKILLS

Linux

Use Arch Linux every day. Familiar with shell commands and tools., and have
experience in maintaining a website.

C / C++

I usually use C/C++ to solve algorithm problems and develop some research
projects.

Python / PHP / Bash

I use these script languages to develop small projects.

C# / Java / Standard ML / Ruby / Matlab

I've used these language but not familiar with them.

QUALIFICATIONS

CET-6
Qualifications for Computer and Software Technology Proficiency (Medium Level)
First prize on the Thoughtworks Pair-Programming Contest
TOP 0.54% on the 7-th CCF CSP

INTERESTS

IT: Basic computer principles and algorithms, Leetcode, Internal of software
Daily Life: Swimming, Table tennis, Basketball

SELF EVALUATION

Advantages
Have a solid foundation of Computer Science and perfect English reading skills.
Disadvantages
Lack the experience of large team project.
Expectations
I hope I can work and study in a high-level platform, in which not only can I exploit my
talents but also patch the defect of my knowledge framework so that I can create more
value for my company.