

SHIRAN ZHANG

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EDUCATION

Peking University

Sep. 2017 - Present

B.S., major in Computer Science, School of Electronics Engineering and Computer Science, expected in 2021

- **Cumulative GPA: 3.40/4.00.**

- Coursework: Mathematical Analysis, Advanced Algebra, Introduction to Computer Systems, Data Structure and Algorithm, Compiling Principles and Practice (96), Theory and Practicum of Computer Network(96), etc.

- **Awards:** May 4th Scholarship of Peking University, Excellent Academic Award, Award for Contribution in Student Organizations, Third Prize in ACM Programming Competition of Peking University, etc.

Peking University

Sep. 2019 - Present

B.P., dual major in Philosophy, Department of Philosophy and Religious Studies, expected in 2021

- Coursework: Introduction to Philosophy, Logic and Argument, Western Philosophy, Chinese Philosophy, Introduction to Religious Studies, Introduction to Philosophy of Science, History of China Religions, etc.

EXPERIENCE

Alibaba Cloud Computing Company

Jun. 2020 - Sep. 2020

Software Development Engineer Intern, Enterprise Mobile Application Studio

Hangzhou, Zhejiang

- EMAS DevOps in Alibaba Cloud is a R & D support platform that provides customers with closed-loop control from code management to static scanning, compilation, construction, release and operation
- Removed *Object Storage Service* during scaffold generation on DevOps proprietary cloud and solved the problem of resource waste caused by the dependent OSS during scaffold generation
- Integrated monitoring capability in pipeline construction on DevOps public cloud, which improves public cloud stability, and helps R & D operation and maintenance personnel to find and locate problems in time

Software Engineering Institute, Peking University

Feb. 2019 - July. 2019

Research Assistant Intern, Programming Language and Development Environment

Haidian, Beijing

- Participated in an empirical study on the characteristics of patches between GitHub forks
- Through the collection of patches between GitHub forks, we found that 20.5% of the patches need to be migrated, 73.2% of which can be migrated directly
- Designed a framework of an automatic tool with parts of patch locator, specification checker and patch modifier

PROJECTS

PKU Cat: An Android Application

Feb. 2020 - Jun. 2020

Project Leader & Front-End Developer

Course Project of Software Engineering

- Completed the structured requirement analysis, design and coding of core requirements, and software testing
- Implemented the main functions of three parts, including *Cat Archives*, *Cat Community* and *Personal Information*
- Responsible for task assignment at each stage, implemented in Java the front-end framework and *Cat Community*

MiniC Compiler

Oct. 2019 - Dec. 2019

Developer

- Designed a MiniC Compiler in C which can run on a Risc-V simulator on Linux
- Parsed MiniC into abstract syntax tree by Lex and Yacc and generated three-address code by traversing the tree
- Leveraged linear scan algorithm among existing register allocation studies to implement the back end of compiler

EXTRACURRICULAR ACTIVITIES

- President of May 4th Literature Club

Sep. 2020 - Present

- Captain of women's basketball team of EECS

Sep. 2018 - Aug. 2019

LANGUAGES/SKILLS/OTHER

- Language: Native speaker of Mandarin, fluent in spoken and written English

- Computer Skills: C&C++, Java, Python

- Hobbies: *Zheng*(Chinese zither), 10-year fan of basketball and table tennis