

Shuo Qu

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EDUCATION

University of Birmingham

Birmingham, UK

MSc Advanced Computer Science

September 2021 – June 2022

Beihang University

Beijing, China

B.Eng Computer Science and Technolog

September 2017 – July 2021

EXPERIENCES

SenseTime

March 2020 – September 2020

Intern Deep Learning Engineer

ShenZhen, China

- Designed and implemented a Python package for executing the pipelines of Deep Learning tasks automatically like data processing, training, and deploying
 - Unified the API of distributed training of different frames including Pytorch, local, and the tool of the company
 - Called other tools for every task of a pipeline
 - Accomplished the document of the package using Sphinx and the united tests
- Configured Nvidia-Docker and the Docker image supporting an environment for Deep Learning
- Built Gitlab-CI for the project, deployed a runner on the server and wrote the config file of CI supporting checking style of codes, deploying documents, and executing united tests
- Read some papers of knowledge distillation and re-implement the method introduced in the paper in the project

PROJECTS

Compiler

March 2020 – June 2020

A compiler compiling a simpler syntax of C to MIPS

- Implemented the lex-analyser and the sementic-analyser, generated the middle codes, and then generated assemble codes from middle codes
- Supported checking some syntax and sementic errors of codes
- Developed some optimizations of target codes including constant interger propagation, register assignment, and function inline

MOS

March 2019 – June 2019

A microkernel operating system of MIPS architecture

- Impemented the page memory management scheme and virtual memory using a list to store free pages
- Implemented the management of process and supported scheduling time periods of process
- Implemented some system calls and the Inter Process Communication(IPC)
- Implemented fork function and the scheme of Copy on Write
- Implemented the disk driver and file system of user space serving other process through IPC
- Implemented pipe function and a simple shell which could read string and execute specific commands

Repositories Manage System

September 2019 – December 2019

A WebApp managing repositories, products, and orders

- Designed forms of database and created the database using Mysql
- Developed the backend of the web application using Django and REST APIs using Django REST Framework
- Deployed the web application on the server

TECHNICAL SKILLS

- **Languages:** C/C++, Python, Javascript, Haskell, Go, Solidity
- **Frameworks:** Pytorch, Truffle, Django
- **Developer Tools:** Git, Docker, VSCode