

Bocheng Tao

Shanghai Jiao Tong University · Software Engineering · Graduate in 2021

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Skills

Programming	C++, Java, Javascript, Python
Front-end	React, Redux, Qt
Back-end	Spring Boot, Spring Cloud, Maven, Nginx
Test	GTest, JUnit, JMeter
Database	MySQL, MongoDB
Deployment	Docker, Drone, Kubernetes, Ansible
Language	Chinese, English

Courses

2019 Fall Semester

the first semester of Junior year

- Algorithms 89/100
- Computer System Engineering 91/100
- Compiler 96/100

2019 Spring Semester

the second semester of Sophomore year

- Database Design Principles 92/100
- Web App Development 93/100
- Intro to Computer System (CSAPP) 93/100

2018 Fall Semester

the first semester of Sophomore year

- Programming and Data Structure 94/100

Projects

FlowChar

GitHub

Personal Project

2020.2

- a tiny tool for conversion from pseudo-code to flowchart
- parse the pseudo-code with lexical and syntactic analysis into IR tree
- build blocks to generate flowchart

SecureMe

GitHub

Team Project

2019.11 - 2020.2

- statically analyze third-party binary with a custom configuration file
- run the binary in a sandbox environment supported by seccomp
- deal with system calls using ptrace

Tiger Compiler

GitHub

Course Project

2019.10 - 2019.12

- a compiler for Tiger language
- front-end: lexical analysis, parsing, type checking, activation records and translation to IR
- back-end: instruction selection, liveness analysis and register allocation

Winsper

GitHub

Team Project

2019.7 - 2019.8

- a mobile app for undergraduates to record and share their lives
- microservice architecture with Spring Cloud and Kubernetes
- front-end developed with React Native

YIBUK

GitHub

Personal Project

2019.3 - 2019.6

- an online book store
- React front-end with state managed by Redux and Spring Boot back-end with multi-layer structure