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