

Boming Zhang

(+86)180-1720-9402 | bomingzh@sjtu.edu.cn | boyanzh.site | github.com/BoYanZh

EDUCATION

Shanghai Jiao Tong University (UM-SJTU Joint Institute)	Sept. 2018 - Present
<i>Bachelor of Science in Electrical and Computer Engineering</i>	<i>Shanghai, China</i>
<ul style="list-style-type: none">Relevant Coursework: Intro to Operating Systems (A+), Methods and Tools for Big Data (A+), Data Structures and Algorithms (A), Programming and Elem. Data Structures (A+), Major Design Experience (A)2020-2021 Undergraduate Excellent ScholarshipOutstanding Member of Technology Department UM-SJTU Joint Institute Student Union	

EXPERIENCE

Research & Development Engineer Intern	June 2021 - Present
<i>Shanghai Zhimian Weiye Technology Co., Ltd.</i>	<i>Shanghai, China</i>
<ul style="list-style-type: none">Full-stack development engineer, technical leader. Build a intelligent firefighting system based on IoT. Responsible for the system architecture, Web frontend, App frontend, backend, and development. Over 7 million IoT devices are connected to the system from Shanghai Fire Brigade, and the algorithm detect hundreds of potential fire risks.	
Research Assistant	Mar. 2021 - Present
<i>Intelligent Design and Optimization Research Lab, advisor Prof. Mian Li</i>	<i>Shanghai, China</i>
<ul style="list-style-type: none">Technical leader of 2 Undergraduate Innovation Practice Programs. Build a risk control center for Shanghai Jiao Tong University School of Medicine, used by over 10 different management systems and over 100 faculties.Construct and build the cryptocurrency funding rate arbitrage system for market research, using Python.	
Teaching Assistant (Intro to OS, Intro to Comp.)	Sept. 2020 - Dec. 2020, Sept. 2021 - Dec. 2021
<i>Shanghai Jiao Tong University, advisor Prof. Manuel Charlemagne</i>	<i>Shanghai, China</i>
<ul style="list-style-type: none">Hosted exam review sessions and weekly lab sessions for at most 100 students, response to students' questions.Develop and maintain the server and relevant softwares, including online grading system, self-service Git platform, Continuous Integration platform for in total over 300 students per term to build and test their softwares.Develop automatic grading script, integrate operations on 4 platforms. Save 1 hour per week per 50 students.	
Deputy Director	Sept. 2018 - July 2019
<i>Technology Department UM-SJTU Joint Institute Student Union</i>	<i>Shanghai, China</i>
<ul style="list-style-type: none">Build Danmu multimedia system using PyQt5 for welcoming party, used by over 300 students every year.Hold workshops and write posts every month to teach and discuss various about technology and development.	

PROJECTS

JOJ 2.0 <i>Python3, FastAPI, PostgreSQL, Redis, Celery, LakeFS, Docker, cgroupsv1, React.js</i>	June 2021 - Present
<ul style="list-style-type: none">Next generation of online grading system.Project Description 2	
iiFire <i>Python3, FastAPI, Go, Gin, MongoDB, Docker, React.js, React Native</i>	June 2021 - Present
<ul style="list-style-type: none">Project Description 1Project Description 2	
FOCS student system <i>Python3, Go, Node.js, Docker2</i>	June 2021 - Present
<ul style="list-style-type: none">JOJ1.0 + Gitea + Drone.io development + maintainanceProject Description 2	
Canvas Syncer <i>Python3, Asynchronous, Multithread</i>	June 2021 - Present
<ul style="list-style-type: none">Project Description 1Project Description 2	

TECHNICAL SKILLS

Languages: Python, (modern) C++, C (Linux), Go, Typescript, MATLAB, C#, Java, HTML, Shell, L^AT_EX
Frameworks: FastAPI, Django, Flask, React.js, Selenium, PyTest, Pandas, NumPy, MXNet, Hadoop
Developer Tools: Git, Docker, Jenkins, Github, Gitlab, Drone.io, VSCode, Vim, Pre-commit, Linux Perf
Data Management Tools: PostgreSQL, MySQL, MongoDB, Redis, Drill, SQLite, RabbitMQ