

# Boming Zhang

(+86)180-1720-9402 | [bomingzh@sjtu.edu.cn](mailto:bomingzh@sjtu.edu.cn) | [boyanzh.site](http://boyanzh.site) | [github.com/BoYanZh](https://github.com/BoYanZh)

## EDUCATION

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<b>Shanghai Jiao Tong University (UM-SJTU Joint Institute)</b>	Sept. 2018 - Present
<i>Bachelor of Science in Electrical and Computer Engineering</i>	<i>Shanghai, China</i>
<ul style="list-style-type: none"><li>• 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)</li><li>• <b>2020-2021 Undergraduate Excellent Scholarship</b></li><li>• Outstanding Member of Technology Department UM-SJTU Joint Institute Student Union</li></ul>	

## EXPERIENCE

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<b>Research &amp; Development Engineer Intern</b>	June 2021 - Present
<i>Shanghai Zhimian Weiye Technology Co., Ltd.</i>	<i>Shanghai, China</i>
<ul style="list-style-type: none"><li>• 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.</li></ul>	
<b>Research Assistant</b>	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"><li>• 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.</li><li>• Construct and build the cryptocurrency funding rate arbitrage system for market research, using Python.</li></ul>	
<b>Teaching Assistant (Intro to OS, Intro to Comp.)</b>	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"><li>• Hosted exam review sessions and weekly lab sessions for at most 100 students, response to students' questions.</li><li>• 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.</li><li>• Develop automatic grading script, integrate operations on 4 platforms. Save 1 hour per week per 50 students.</li></ul>	
<b>Deputy Director</b>	Sept. 2018 - July 2019
<i>Technology Department UM-SJTU Joint Institute Student Union</i>	<i>Shanghai, China</i>
<ul style="list-style-type: none"><li>• Build Danmu multimedia system using PyQt5 for welcoming party, used by over 300 students every year.</li><li>• Hold workshops and write posts every month to teach and discuss various about technology and development.</li></ul>	

## PROJECTS

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

## TECHNICAL SKILLS

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**Languages:** Python, (modern) C++, C (Linux), Go, Typescript, MATLAB, C#, Java, HTML, Shell, L<sup>A</sup>T<sub>E</sub>X  
**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