

# Boming Zhang

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## EDUCATION

- Shanghai Jiao Tong University (UM-SJTU Joint Institute)** Sept. 2018 - Present  
*Bachelor of Science in Electrical and Computer Engineering* Shanghai, China
- 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 Scholarship**
  - Outstanding Member of Technology Department UM-SJTU Joint Institute Student Union

## EXPERIENCE

- Research & Development Engineer Intern** June 2021 - Present  
*Shanghai Zhimian Weiye Technology Co., Ltd.* Shanghai, China
- 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  
*Intelligent Design and Optimization Research Lab, advisor Prof. Mian Li* Shanghai, China
- 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** Sept. 2020 - Dec. 2020, Sept. 2021 - Dec. 2021  
*Shanghai Jiao Tong University, advisor Prof. Manuel Charlemagne* Shanghai, China
- Hosted exam review sessions and weekly lab sessions for at most 100 students, response to students' questions.
  - Deploy 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 and maintain automated grading script to help students form a good usage of Git, using Python. Save an average of 2 hours per week per 100 students.
- Deputy Director** Sept. 2018 - July 2019  
*Technology Department UM-SJTU Joint Institute Student Union* Shanghai, China
- 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** | *Python, FastAPI, PostgreSQL, Redis, Celery, LakeFS, Docker, cgrouops, React.js* June 2021 - Present
- Project Description 1
  - Project Description 2
- Canvas Syncer** | *Python, Asynchronous programming* June 2021 - Present
- Project Description 1
  - Project Description 2
- iiFire** | *Python, Asynchronous programming* June 2021 - Present
- Project Description 1
  - Project Description 2
- FOCS student system** | *Python, Go, Node.js, Linux* June 2021 - Present
- JOJ1.0 + Gitea + Drone.io development + maintainance
  - Project Description 2

## TECHNICAL SKILLS

**Languages:** Python, (modern) C++, C (Linux), Go, Typescript, MATLAB, C#, HTML, Shell, L<sup>A</sup>T<sub>E</sub>X  
**Frameworks:** FastAPI, Django, Flask, React.js, Selenium, PyTest, Pandas, NumPy, MXNet, Hadoop, MapReduce  
**Developer Tools:** Git, Docker, Jenkins, Github, Gitlab, Drone.io, VSCode, Vim, Pre-commit, Linux Perf, Nginx  
**Data Management Tools:** PostgreSQL, MySQL, MongoDB, Redis, Drill, SQLite, RabbitMQ