

Zhang Yang

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EDUCATION

National University of Singapore

Singapore, Aug 2021 - Jan 2023

- M.Comp. Computer Science (GPA: 4.4/5.0)

Sichuan University

China, Sept 2016 - Jun 2020

- B.Sc. Chemistry (GPA: 3.8/4.0, TOP 5%)
- Distinguished Student of Sichuan University

EXPERIENCE

Software Engineer Intern

Ant Group, Singapore | Apr 2022 – Dec 2022

- Lead development of withdraw business for Alipay's digital wallet using Java and SpringBoot framework
- Setup production monitors and real-time fund loss checkers for Alipay's digital wallet services
- Performed system analysis, development, and testing for function upgrade of BNPL for Alipay's digital wallet
- Summarized and shared software design patterns practice in Alipay's repository

Android System Engineer

Transsion Holdings, China | Jul 2020 – Jul 2021

- Boosted android system performance by 5% through modifying Android Linux kernel layer in C++ and Java
- Maintained system integrity of Transsion's devices by continuous solving performance issues of beta devices
- Worked closely with a team of PM and QA to push innovative solutions to address customers' feedback

Research Assistant

Sichuan University, China | Dec 2019 – Jun 2020

- Published academic article on convolutional neural networks(CNN) in [ScienceDirect](https://www.sciencedirect.com/science/article/pii/S095758202100505X)¹ (Citation Number: 6)
- Researched and developed CNN and genetic algorithms using TensorFlow for chemical processes fault diagnosis

Research Scholar

University of Ottawa, Canada | Jul 2019 – Oct 2019

- Canada Mitacs Globalink Research Internship Award
- Utilized machine learning models to guide 32 organic chemistry experiments and optimized chemical yield by 7%

PROJECT

BodyBuildingHub

- Built a full-stack webapp that crawls popular workout videos and tracks the user's fitness progress using React, NodeJS, MongoDB and GraphQL
- Implemented user login system using Google's API, developed at docker, and deployed on AWS server.

BloBlog

- Implemented a minimalist blog system using Spring Boot, MySQL, Google Kaptcha and MyBatis
- Utilized RESTful APIs for frontend-backend interaction.

Distributed storage system (MIT 6.824 OpenCourseWare)

- Implemented the raft consensus algorithm for distributed system using Golang.
- Realized a fault-tolerant key-value storage system based on raft.

SKILLS

- **Coding Languages:** Java, Python, JavaScript, Go, Scala, SQL
- **Frameworks/Tools:** Spring, SpringBoot, React, MyBatis, Hadoop, RESTful APIs, GraphQL, Git, Docker, AWS, TensorFlow, Scikit-learn
- **Database:** MySQL, Redis, MongoDB
- **Coursework:** Data Structure and Algorithms, Computer Network, Operating Systems, Distributed Systems
- **Work languages:** English (IELTS 7.5), Chinese (Native)

¹ <https://www.sciencedirect.com/science/article/pii/S095758202100505X>