

# Bohong ZHAO

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## EDUCATION

**Nara Institute of Science and Technology (NAIST)**, Ikoma, Nara, Japan

- Master Program in Information Science Apr 2022 – Apr 2024 (expected)
  - Supervisor: Prof. Yoshinobu Sato, Imaging-based Computational Biomedicine Lab

**The University of British Columbia (UBC)**, Vancouver, BC, Canada

Jul 2018 – Aug 2018

- Summer Program: Algorithms & Webapp Courses

**Southern University of Science and Technology (SUSTech)**, Shenzhen, Guangdong, China

- B.Eng. in Computer Science and Engineering Sep 2016 – Jul 2021
  - Relevant courses: Data Structures and Algorithms Analysis, Discrete Mathematics, Digital Logic, Computer System Design and Application, Computer Organization Principle, Database Principle, Probability and Statistics, Artificial Intelligence, Computer Networks, Embedded System and Microcomputer Principle, Object-oriented Analysis and Design, Software Engineering, C/C++ Programming Design, Computer Vision, Introduction to Cognitive Science, Operating System, Robotics, Introduction to Big Data Analysis

## RESEARCH EXPERIENCE

**2D/3D Registration using Deep Learning**

- Master Research Theme, NAIST, Supervisor: Prof. Yoshinobu Sato Apr 2022 – Present
  - Languages & Framework: Python, PyTorch, MATLAB
  - Summary: Implementing deep learning methods to 2D/3D registration.

**Medical Image Processing using Deep Learning** [link to GitHub]

- Summer Research Project, SUSTech, Supervisor: Prof. Feng Zheng Jun 2019 – Sep 2019
  - Languages & Framework: Python, PyTorch
  - Summary: An elementary deep learning research training, applying to medical image detection and segmentation.

**Parallel Implementation of MOEA/D and its Application to Feature Selection** [link to GitHub]

- Undergraduate Project, SUSTech, Supervisor: Prof. Hisao Ishibuchi Sep 2018 – Jun 2019
  - Languages: Python, MATLAB
  - Summary: This project aims to parallelize MOEA/D by using the island model and find out an effective way in which partial data would be used for communication. Several feature selection cases are used for verification.

## WORK EXPERIENCE

**Ping An Technology**, Shenzhen, Guangdong, China

- Development Intern, Knowledge Graph Dev Team Jun 2020 – Nov 2020
  - Django back-end development: our team collaborates to run a stock recommendation system. I am responsible for designing and maintaining the back-end API to provide specific forms of information based on team members' requirements. The team's requirements are often extremely complex and require basic stock data engineering knowledge to understand, but meanwhile, it's highly modular. I designed an abstract calculation syntax tree to handle the information that team members have preliminarily processed.

## COURSE PROJECTS

- **Snappat – A social network app based on puzzles** [link to Github] Feb 2019 – Jun 2019
  - This project aims to develop a social networking app covering several features like social function, machine learning, object recognition, and puzzle solving.
  - In charge for: entire app UML design, homepage/fragment card development, code version management.
- **Sensor Data Real Time Transmission Application** [link to Github] Sep 2018 – Jan 2019
  - Building an Android app to send the sensor's data between multi-device using MQTT protocol.
  - In charge for: entire android app development and MQTT server maintenance.
- **Faculty Reservation System** [link to Github] Sep 2018 – Jan 2019
  - This project is to develop a system for helping SUSTech students and faculty schedule their meetings. The system covers several important features, such as user registration, user information, and appointment scheduling.
  - In charge for: PHP back-end spider development for grabbing data from researchgate.
- **Earthquake Visualization Software** [link to Github] Feb 2017 – Jun 2017
  - Developing a software which performed visualized and statistical seismic data using Java GUI.
  - In charge for: Java back-end spider for grabbing seismic data from web.
- **Flight Reservation System** Sep 2016 – Jan 2017
  - Developing an online flight reservation system by JSP and JavaBean including functions like user registration, flight querying, flight reservation, flight management.
  - In charge for: full-stack development including JSP web pages, material designed frontend, MySQL databases.

### Remarks

All 5 projects above are course projects (in SUSTech) of: software engineering, computer network, object-oriented analysis and design, advanced java programming, java programming, respectively.

## SKILLS

- Python (advanced), C/C++, Java, SQL, Shell,  $\LaTeX$

## LANGUAGES

- Chinese: Native ▪ English: Business(TOEFL 84) ▪ Japanese: Basic

[CV compiled on 2022-11-13, check it on [github.com/hackroid/cv](https://github.com/hackroid/cv), branch: job]