

RONGFU BAI

🌐 <https://BArt1st.github.io>

(+86) 181 9226 3271 • ✉ <mailto:Barof4718@stu.xjtu.edu.cn> • 📍 Xi'an Jiaotong University

EDUCATION

Xi'an Jiaotong University, Xi'an, China Sep. 2022 – Jun. 2026 (Expected)

Bachelor of Software Engineering

GPA: 3.50 / 4.30 (85.04 / 100.00)

Core Modules: Machine Learning; Image Processing and Computer Vision; Algorithm Analysis and Design; Operating Systems; Computer Organization and Architecture; Database Systems; Data Structures; Discrete Mathematics

RESEARCH EXPERIENCE

Low-bit Quantization and Inference Acceleration Westlake University, Jul. 2025 – Present

Adviser: Prof. Huan Wang

- Quantized weights and activations of VMamba to 1.58 bits and replaced conventional matrix multiply with bitwise operations, reducing computations and accelerating inference.

Radar Imagery Segmentation via Contrastive Learning Xi'an Jiaotong University, Apr. 2024 – Jun. 2024

Adviser: Prof. Haixia Bi

- Applied pixel-level contrastive learning on PolSAR(Polarimetric Synthetic Aperture Radar) images to extract discriminative features, reducing dependence on manual annotations.

PROJECT

Logistics Drone in Unknown Environments Apr. 2023 – Apr. 2024

Provincial-Level Undergraduate Innovation Training Project

- Trained and deployed YOLOv8 for drop-off point recognition for safe autonomous delivery.
- Collaborated on SLAM using DWA for real-time obstacle avoidance and path planning.

INTERNSHIP

Algorithm Engineer Intern, Chengdu Shangcheng Data Co. Feb. 2025 – Mar. 2025

- Processed large-scale Spotify dataset with Spark.
- Designed a recommendation algorithm combining K-means clustering and matrix factorization to alleviate the data sparsity issue in Collaborative Filtering.

SKILLS & HONOURS

Honours & Leadership

Outstanding Class Cadre, Xi'an Jiaotong University 2023–2024

Outstanding Student, Xi'an Jiaotong University 2022–2023

Third-Class Scholarship, Xi'an Jiaotong University 2022–2023

Class Leader, Software Class 2201 2023–Present

Technical Skills & Programming

- Python (PyTorch), C/C++/CUDA, Java, Matlab, Spark, MySQL
- LATEX, Markdown, Git, Jetson AGX Orin

Languages

- English (IELTS Overall 6.5, Reading 8.0)
- Chinese (Native)