

# BOWEN ZHANG

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## Education

**South China University of Technology**

**Sep 2021 – Jun 2025**

*Bachelor of Software Engineering, GPA:3.84/4.0 (90.32/100.0, rank:4/49 Excellent Engineer Class)*

*Guangzhou*

## Relevant Coursework

- Mathematical Analysis
- Machine Learning
- Discrete Mathematics
- Software Architecture
- Linear Algebra
- Deep Learning
- Data Structures
- Database System

## Experience

**Machine Learning and Data Mining Lab (advised by Qianli Ma)**

**Oct 2023 – Present**

*Research Intern*

*School of Computer Science, SCUT*

- Mainly focused on research in data mining and time series modeling, especially time series forecasting and classification.
- Recently researched on Mixture-of-Experts and multi-scale modeling, and applied them to time series analysis problems.
- Familiarized with graph neural network and spatio-temporal data mining, reproduced graph neural network, GCN, GAT.

**Key Laboratory of Big Data and Intelligent Robot (advised by Yi Cai)**

**Mar 2023 – Present**

*Research Intern*

*School of Software Engineering, SCUT*

- Researched on natural language processing and LLM, engaged in practical research on models, ChatGLM and Qwen, etc.
- Completed the project "Smartvision: AIGC-based Smart Glasses for Visually Impaired Travel Assistance" and won the Second Prize of National College Students' Software Innovation Competition (South China Area).
- Recently researched on LLM hallucination and RAG technology, developing the project "Natural Language Content Matching System Based on LLM".

## Projects

**Smartvision: AIGC-based Smart Glasses for Visually Impaired Travel Assistance | Python** **Oct 2023 – Present**

- Aimed at visually impaired individuals and adopted a Client-Server architecture, using ChatGLM as LM base.
- The project performed intelligent QA, smart navigation, object recognition and intelligent obstacle avoidance functions.
- Wrote innovative project documents, software development documents, and software testing documents.
- Developed the object recognition, utilizing object detection models such as mmdetection, detec, YOLO-World, etc.

**Beyond Guessing: Data-Driven Exploration of Word Features and Relationships | Python, LaTeX** **Feb 2023**

- Used ARIMA model to solve problems related to time-series analysis, determined ACF & PACF values and forecasted.
- Used the K-means clustering method to determine the difficulty level of the problem, TOPSIS entropy weight analysis.
- Utilized SPSS and Matlab for data preprocessing, analysis and visualization. Proficient in using LaTeX to write paper.
- This paper received Finalist (Top 0.17%) in MCM (Mathematical Contest In Modeling).

## Technical Skills

**Programming Languages:** Python, C++, Java, Matlab, LaTeX, SQL

**English Level:** CET6: 512, CET4: 567

## Honors and Awards

- National Scholarship (rank: 1/49) 2022
- Top Ten Excellent Student Models of SCUT (The best honor for undergraduates in SCUT) 2023
- Top Ten Excellent Communist Party Members Nomination Award of SCUT 2024
- First Prize Scholarship of South China University of Technology (rank: 2/49) 2023
- Finalist of Mathematical Contest In Modeling (MCM, Top 0.17%) 2023
- First Prize of Chinese Mathematics Competitions (CMC) 2022 and 2023 (twice)
- Gold Prize of National College Student Algorithm Design and Programming Challenge 2023
- Second Prize of National College Students' Software Innovation Competition (South China Area) 2024

## Leadership / Extracurricular

**Monitor of class**

**Sep 2022 – Present**

*South China University of Technology*

- Led class to receive Top Ten Excellent Classes Nomination Award of South China University of Technology in 2023.
- Talented in Mathematical Analysis (Score:98, rank:1/124), received Excellent Auxiliary Volunteer.