

# Zhen-Kai Zou

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## OBJECTIVE

Sophomore Bioengineering student with a strong quantitative foundation (Top 0.2% in Math) and self-taught programming skills. Seeking a research position in Computational Biology or Bioinformatics. Deeply interested in applying Machine Learning (Deep Learning) to biological models, including Protein Structure Prediction (AlphaFold), gene expression analysis, and biological data mining.

## EDUCATION

**Shandong University (Weihai)**  
*Bachelor of Engineering in Bioengineering*

Weihai, China  
Sept 2024 – Present

- **Academic Performance:** GPA Ranking: 12/72 (Top 16.7%).
- **Key Coursework:** Calculus (83/100), General Biology, Organic Chemistry.
- **Quantitative Strength:** Scored 118 in National College Entrance Exam (Math), ranking approx. top 0.2% provincially.

**Zhongshan No.1 Middle School**  
*High School Diploma*

Guangdong, China  
Sept 2018 – July 2024

## TECHNICAL SKILLS

### • Programming Languages:

- **Python (Self-taught):** Proficient in loops (for/while) and function definitions; experience using `requests` library for web scraping and data acquisition.
- **C Language:** Understanding of basic algorithms, array manipulation, and modular programming logic.

### • Bioinformatics Interests:

Biological database construction, Data Mining, Protein Structure Prediction (AlphaFold applications).

### • Tools:

Scratch (Game logic design), Microsoft Office Suite.

## PROJECTS & COMPETITION EXPERIENCE

**Autonomous Robotics Programming & Assembly**  
*18th Guangdong Provincial Youth Robotics Competition (CAAC)*

Team Lead  
2023

- Won **First Prize (Gold Medal)** in the Comprehensive Skills Category.
- Programmed a robot using C language and modular coding techniques to perform complex tasks autonomously.
- Implemented logic for line tracking, mechanical arm manipulation, and object sorting/placement in designated zones.

**”Teeth Defense Battle” - Interactive Educational Game**  
*19th Zhongshan Computer Production Activity*

Creator  
2022

- Won **Second Prize** for computer program design.
- Designed an obstacle-avoidance leisure game using Scratch to promote dental health awareness among younger students.

## HONORS & AWARDS

- **First Prize (Gold Medal)**, 18th Guangdong Provincial Youth Robotics Competition (CAAC) 2023
- **First Prize (Runner-up)**, 15th Zhongshan Youth Robotics Competition 2022
- **Second Prize**, 14th Zhongshan Youth Robotics Competition 2021
- **Second Prize**, 19th Zhongshan Primary and Secondary School Computer Production Activity 2022