

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) <i>Bachelor of Engineering in Bioengineering</i>	Weihai, China Sept 2024 – Present
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- **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 <i>High School Diploma</i>	Guangdong, China Sept 2018 – July 2024
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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 <i>18th Guangdong Provincial Youth Robotics Competition (CAAC)</i>	Team Lead 2023
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- 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 <i>19th Zhongshan Computer Production Activity</i>	Creator 2022
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- 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