

Zou Yi

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Education

South China University of Technology

2020 Sep – 2024 Jun (Expected)

Bachelor of Engineering in Electrical Engineering

Guangzhou, Guangdong Province, China

- Linear Algebra and Analytic Geometry, 3.7/4.0
- Probability and Mathematical Statistics, 3.7/4.0
- Analog Electronic Technology, 3.7/4.0
- Python Programming, 3.7/4.0

Research Experience

Research on performance of real-time fall detection algorithm

2023 Jan - Present

South China University of Technology

Guangzhou, Guangdong Province, China

- Research on real-time fall detection preventing the elderly from injury
- Constructed algorithm models using neural network approach based on Ghost-Net combined with LSTM, reduced the time delay with fewer model parameters
- Applied weighted preprocessing to the data in order to enhance real-time performance and compatibility on tiny mobile devices

Data-based approach to forecast renewable energy

2022 Mar - 2023 Feb

South China University of Technology

Guangzhou, Guangdong Province, China

- Made predictions based on meteorology data from solar power station
- Organized and cleaned the data and analysed the correlation, extracted temporal information for time-series prediction
- Constructed algorithm with different structure including ARIMA model and recurrent neural network, judge the effect by evaluation indicators

Extracurricular Activities

Deputy Secretary of the Youth League Committee

2022 Dec - Present

South China University of Technology

Guangzhou, Guangdong Province, China

- Initiated and organized the publicity office, managed and published over 50 articles on the official WeChat account.
- Set up soiree for freshmen to show themselves and get familiar with university surroundings.

Certified Volunteer

2015 Sept - Present

Guangdong Volunteer Federation

Guangdong Province, China

- Started volunteering since 2015 and the total cumulative time reached 142 hours.
- Anticipated in tutorial work for children who live in rural areas through the internet.
- Participated in the organization as well as supporting work of the 15th Guangdong Provincial Games.

Awards and Honors

Science Contest on Energy Saving and Emission Reduction

Honourable Mention

South China University of Technology

2022 May

Star Volunteer

One Star

Guangdong Volunteer Federation

2021 May

Specialized Skills

Programming Languages: Python (Intermediate)

Software: MATLAB

Additional Information

Language: Native Mandarin and Cantonese speaker, competent in written and oral English, CET6 (2021 June): 547

Athletics: Badminton, Basketball