

# Yesian Rohn

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## EDUCATION

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### Fudan University

September 2020 - June 2024

Computer Science and Technology (Bachelor of Science)

(Anticipated Graduation)

- Cumulative GPA: 3.6/4.0 (Ranking: 22/93)
- Coursework: Data Structure(A), Introduction to Electronic Systems(A-), Introduction to Robotics(A), Discrete math(A), Computation Theory(A-), Computer Visualization(A), Computer Architecture(A), Operating Systems(A)

## PROFESSIONAL EXPERIENCE

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### Robot for Measuring Photosynthetic Efficiency

February 2023 - May 2023

*Shanghai Institute of Plant Physiology and Ecology, Research Intern*

- Utilized the deep learning model Mask-RCNN for leaf instance segmentation and optimized the task by applying data augmentation techniques and dropout strategy to prevent overfitting.
- Devised algorithm to properly account for the distance and normal vector of the segmented leaf captured by a depth camera.
- Called the API interfaces of the AGILE AGV and the JAKA Manipulator to plan their movements and move the collection device to the optimal position upon detecting the blades.

### Visualizing the Friendliness of Cycling Routes

October 2022 - November 2022

*Commonweal Project of Greencode in Alibaba Cloud, Group leader*

- Created an HTML-format map of non-motorized bicycle lanes in Wuhan city using the Folium package.
- Built two web pages with HTML and CSS based on the map, and deployed them on Github.
- Added a domain name mapping for [www.mjdlz.cn](http://www.mjdlz.cn) to these web pages.

### Industrial Software and Robotic Arm Development

July 2022 - September 2022

*Chongqing Qingyan Technological Intelligent Technology Research Institute, Software Intern*

- Developed ERP systems for industrial enterprises through a low-code platform.
- Assisted in writing project development documents and software monographs, including conducting research, gathering information, organizing data, and proofreading.
- Wrote C# code to enable interaction between a physical robot and the RoboDK app for exploring the Digital Twin technology.

## SKILLS LIST

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### General Computer Skills

Programming Languages: C/C++, Python, C#, SQL, Bash, Verilog, HTML/CSS, JavaScript

Hardware Experience: Raspberry Pi with GPIO, AGV with OpenCV, MIPS, Robotic Arm

Software & Tools: Low-code, LaTeX, Markdown, Jupyter Notebook, ChatGPT Prompt, Git, Linux

### Language

Standard Chinese (Native, Two levels of second-class) English (Fluent, CET-6: 565/710)

## HONOR

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Alibaba Cloud Annual Geek of Greencode

Winter 2022

Third-class Scholarship of Fudan University

Autumn 2022