

RESUME

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Yaojia Wang



About Me

I have a bright and cheerful personality with an active and curious mind. I am energetic, responsible, and well-organized in my work. I get along well with others, approach tasks with enthusiasm, and am eager to learn and take on challenges. I possess strong team spirit and coordination skills. Technically, I am proficient in full-stack Python development, experienced in Linux-based development and Git-based collaboration, and capable of delivering end-to-end solutions from algorithm design to engineering implementation.



Education

- 2022.09 - present
Fudan University Undergraduate
Major in: Micro-electronics Science and Engineering
- 2024.09 - 2024.12
University of California, Santa Barbara Exchange student
Major in: Electrical Engineering
Studied Data Structure, Introduction to Computer Architecture, Introduction to Solid-State Electrical Devices Course. Obtained a GPA of 3.92.



Work Experience

2024.09 - present

Institute of Space Internet, Fudan University Undergraduate Intern

1. Development of a Digital Twin System for Satellite Networks

- Built a satellite topology visualization interface using Node.js to dynamically demonstrate the movement of LEO satellites.
- Collaborated with the backend team to integrate data interfaces, enabling visual dashboards for key metrics such as link latency and load rate.
- Developed a basic topology configuration tool that supports satellite node parameter adjustments and simple routing path setup.

2. Cross-Shell Routing Optimization

- Participated in constructing satellite network scenarios in STK and assisted in collecting inter-orbital layer link latency data.
- Conducted NS3 simulation tests under the guidance of a supervisor to evaluate the performance improvements of routing strategies.
- Organized experimental data and contributed to the paper *Stabilizing and Optimizing Inter-Shell Routing in LEO Networks with Integrated Routing Cost* as the leader author.



Award

1. Second prize for National College Student Mathematical Contest in Modeling (2023)
2. Rongchang-Fudan Chip Aspiration Scholarship (2023)
3. Fudan University Second Class Scholarship (2023)