

Daniel He

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EXPERIENCE

Frontend Developer

Sept 2023 – Dec 2023

HARP Research Inc

Commack, NY

- Gained knowledge on industry techniques for front-end development
- Became familiar with typescript and proficient in HTML/CSS
- Communicated weekly with project lead and CEO on project status
- Worked closely with HI team on user interface and user experience design

Rensselaer Center of Open Source

Sep 2021 – Present

Rensselaer Polytechnic Institute

Troy, NY

- Collaborating on various projects to gain software development skills
- Communicating with professors and project leads on project status weekly
- Contributed to 6k+ lines of code and counting

PROJECTS

Housing 2.0 | *Python, Fast API, MongoDB, Python Unit-test, Git*

Sept 2022 – Present

- Developed and tested various backend search algorithms for student housing assignments, incorporating various criteria like student preferences, room availability, and special accommodations.
- Authored detailed documentation of backend algorithms, ensuring clarity and ease of maintenance for future team collaborations
- Integrated MongoDB and FastAPI to significantly improve data retrieval processes, enhancing algorithm performance
- Collaboratively engaged with backend team to refine and optimize algorithmic efficiency

Knowledge_Net | *JavaScript, HTML/CSS, VueJS, Git, Flask*

Nov 2023

- Created a educational application leverages CHATGPT API to generate 'Knowledge Graphs' as a study-aid for students with Hackathon team
- Implemented many front-end features using Vue, while integrating Flask for efficient front-end and back-end communication.
- Showcased exceptional adaptability and problem-solving skills in delivering high-quality results under tight deadlines.

Portfolio Template | *Typescript, HTML/CSS, ReactJS, Tailwind*

Dec 2023 – Jan 2024

- Developed a user-friendly template designed to assist individuals in creating their own unique and professional portfolios.
- Included documentation to help users navigate project files for customization

EDUCATION

Rensselaer Polytechnic Institute (Upcoming Senior) / GPA 3.0

Troy, NY

Bachelor of Science in Computer Science - Expected May 2025

Aug 2021 – Present

- **Relevant Courses:** Modern Binary Exploitations, Network Resilience, Computer Organization, Operating Systems, Principles of Software, Introduction to Algorithms, Foundations of Computer Science (Discrete Mathematics)

TECHNICAL SKILLS

Languages: C/C++, Python, Java, JavaScript, TypeScript, HTML/CSS, PostgreSQL, R, x86 Assembly, Haskell

Frameworks: React, Node.js, VueJS, JUnit, Python Unittest, FastAPI, Flask

Developer Tools: Git, VS Code, Visual Studio, Insomnia, Jupyter Notebooks, Google Colab

Libraries: pandas, NumPy, GNU