

Chenfei Yu

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Education

Boston University

M.S. in Software Development

- GPA: **3.78/4.0**

Boston, MA

Sep 2022 - Jan 2024

Soochow University

B.S. in Physics

Suzhou, China

Sep 2018 - Jun 2022

Skills

Languages: JavaScript (ES6+), TypeScript, Python, SQL, Java

Frameworks & Tools: React, Node.js, Express, MongoDB, PostgreSQL, Axios, TailwindCSS, Sass, Vite, WordPress, Figma, Git

Work Experience

Openread Ltd. | *TypeScript, React, TailwindCSS, React Query, Vite*

Front-end Developer (part-time)

Mar 2022 - Nov 2022

- Member of a startup team, created a [web application](#) for academic articles searching, re-formatting and reading, participated in the prototype design with Figma.
- Processed rich text data extracted from pdf articles and rendered them as DOM with a more user friendly layout. Implemented equations rendering with **MathJax** and **KaTeX**.
- Developed AI powered chatbot for article explanation and summary.
- Brought in **Husky** and **Commitizen**, configured **git hooks** and normalized commit messages.

XianYiShu Ltd. | *Python, Pandas, Numpy, Matplotlib*

Python Developer Intern

Jan 2022 - Mar 2022

- Implemented **30+** analysis functions for a finance and taxation risk detecting system.
- Implemented auto-generating graphs and analysis reports for each developed function.
- Improved a data mining module by correcting and adding **60+** features.

National University of Singapore | *Python, PyTorch, PennyLane*

Machine Learning Research Intern

Aug 2021 - Jan 2022

- Conducted research in quantum machine learning, implemented a simulation of quantum-classical hybrid convolutional neural network.
- [Project code](#) gained 15 stars on Github, [research workshop](#) video received **7k views**.

Project

[Online Pharmacy](#) | *TypeScript, JavaScript, React, Node.js, Express, MongoDB*

- E-commerce web application, implemented prescription generating with email notification, prescription retrieving, separated purchasing paths for prescribed and OTC medications, and a fully functional online OTC medicine store.
- Realized monorepo development for decoupled front-end and back-end.
- Implemented user authentication with JWT, global state management with Redux.

Publication

Realization of the Quantum Spin Hall Effect Using Tunable Acoustic Metamaterials, [Phys. Rev. Applied](#) **18**, [044055\(2022\)](#), Jia-he Chen, Yanfang Li, **Chenfei Yu**, Caixing Fu, and Zhi Hong Hang