Chenfei Yu

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Education

Boston University	**Boston, MA**
M.S. in Software Development	*Sep 2022 - Jan 2024*

- GPA: **3.78/4.0**

Soochow University	**Suzhou,China**
B.S. in Physics	*Sep 2018 - Jun 2022*

Skills

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

Frameworks & Tools: React, Node.js, Express, MongoDB, PostgreSQL, Axios, TailwindCSS, Less.js, Sass, Vite, Pandas, Numpy, PyTorch, 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 article searching, re-formatting and reading, participated in the prototype design with Figma.
- Brought in **Husky** and **Commitizen**, configured **git hooks** and normalized commit messages.
- Implemented equations rendering with **MathJax** and **KaTex**.
- Coordinate closely with back-end developers on API integration.

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*

- An E-commerce web application for doctors to generate prescriptions, customers to retrieve prescriptions and purchase medicines.
- 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