

Feifan He

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EDUCATION

- **Master of Science in Computer Science (GPA: 3.89)** - Brandeis University (2022 - 2024)
- **Bachelor of Commerce (Graduated with Distinction)** - University of Toronto (2013 - 2017)
- CFA® charterholder, CFA Institute.

WORK EXPERIENCE

Associated Environmental Systems - Software Engineer Intern (*Jun 23 - Aug 23*) *Massachusetts, US*

My team supports the test chamber management software, utilizing *Node.js*, *Express.js*, *InfluxDB*, and *MongoDB* for the backend, and *Next.js* and *React.js* frameworks for the frontend.

- Developed an **interactive data visualizer tool** that streamlined data cleaning, parsing, and visualization of CSV files, empowering users to customize and annotate charts with enhanced data analytic capabilities.
- Designed and implemented a **comprehensive content management mechanism** that allowed for seamless versioning, editing, exporting as PDF, and read-only sharing of generated reports. This mechanism facilitated efficient collaboration and simplified content management tasks.
- Implemented **automated tests** for data visualizer, report generator, and content management systems.

PROJECTS

- **Student Employment Website:** a course-wide project designed to foster a strong community among students and potential employers. This platform enables user sign-ups and allows authenticated users to create, edit, and delete job postings and job events. Additionally, the website includes features such as a RESTful API, responsive design, and WebSocket integration for real-time chat. - *HTML/CSS/JS, Express, Socket.io, MongoDB/Mongoose, Bootstrap, Node.*
- **UML Class Diagram Editor:** A UML Class editor that enables users to create, edit, and delete classes and relationships: <http://feifanhe.com/umleditor> - *HTML/CSS/JS, React, MongoDB, Bootstrap, Node, Express.*
- **Sudoku Game:** An online game that generates Sudoku puzzles and allows players to choose their desired difficulty level. This game can be played at <http://feifanhe.com/sudoku> - *HTML/CSS/JS, AngularJS.*
- **Automated Trading via Telegram:** A live trading algorithm with Telegram integration that runs on GCP. The design can be accessed at <http://feifanhe.com/algo-trading> - *Python, Robinhood lib(pyrh), python-telegram-bot.*
- **Stock Filter:** A Python-based stock filter that retrieves data from the Yahoo Finance endpoint and filters stocks using the criterias from Mark Minervini's Pivot Volatility Contraction Pattern. The source code for the project is available on GitHub at <https://github.com/FEIFAN-HE/stock-filter> - *Python, Yahoo Finance Web Endpoint.*

SKILLS

- **Languages:** *JavaScript/CSS/HTML | Python | Java | Bash | NodeJS*
- **Frameworks:** *React | jQuery | Express.js | Next.js | Socket.io | Bootstrap | Docker*
- **Databases:** *MongoDB | InfluxDB | MySQL*