

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 2023 - Aug 2023*) *Massachusetts, US*

Created a chamber research solution comprising a data visualizer, report generator, and a user-friendly dashboard.

Backend: *Node.js, Express.js, Jenkins, InfluxDB* and *MongoDB*. Frontend: *Next.js, React.js*, and *Tailwind CSS*.

- Implemented data cleaning, parsing, and reduction techniques achieving a 35% reduction in storage.
- Developed content management system to enable versioning, PDF exporting, and the read-only publication of reports, resulting in a 50% improvement in the lab report process and facilitating efficient collaboration.
- Leveraged a data reduction technique that remediates the app from frequently crashing due to loading too many data points, and improves the chart rendering speed by 70%.
- Created automated tests to enhance reliability and worked closely with product managers to ensure that the delivered features aligned with user requirements within the agile development cycle.
- Designed and implemented the CI/CD pipeline to automate the build and test process.

PROJECTS

- **Student Employment Website:** A full-stack project aimed at fostering a vibrant community among students and potential employers. This platform integrates user management and authentication, job postings, and event hosting. Notable features include a RESTful API, responsive design, and real-time chat through WebSocket integration. - *MERN tech stack, EJS template engine, Bootstrap, Socket.io*.
- **Interactive 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, Bootstrap*.
- **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 Google Cloud Platform. The design of the system can be accessed at <http://feifanhe.com/algo-trading> - *Python*

SKILLS

- **Languages:** JavaScript | CSS | HTML | Python | Java | Bash | Node.js
- **Frameworks:** React | Next.js | jQuery | Express.js | Socket.io | Bootstrap | Flask | Docker | Postman
- **Databases:** MySQL | MongoDB | InfluxDB
- **Cloud Services:** GCP | AWS