

# Feifan He, CFA

[Willing to Relocate]

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## EDUCATION

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- **Master of Science in Computer Science (GPA: 3.85)** - Brandeis University (2022 - 2024)
- **Bachelor of Commerce (Graduated with Distinction)** - University of Toronto (2013 - 2017)

## WORK EXPERIENCE

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**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, 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 40%.
- 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.

**TD Bank** - Personal Banking Associate (Feb 2019 – Sep 2019)

*Toronto, Canada*

**CIBC Bank** - Financial Service Representative (Oct 2017 – Jan 2019)

*Toronto, Canada*

## PROJECTS

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- **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. - *TypeScript, JSON, NoSQL, Bootstrap, Socket.io*.
- **Multi-threaded Shell Simulator:** An application that simulates a shell environment, capable of executing Linux commands with arguments, handling inputs, and producing output. Leveraging concurrency and piping, it can transform input and give results efficiently. <https://github.com/feifan-he/Shell-Simulator> - *Java, OOP*
- **AVL Tree Scorekeeper:** A scorekeeping application that leverages an AVL tree as the underlying data structure for efficient search time. <https://github.com/feifan-he/AVL-Tree> - *Java, OOP*
- **Sudoku Generator:** An application capable of generating empty Sudoku boards along with solutions of different difficulty levels. <https://github.com/feifan-he/Sudoku-Generator> - *Python*
- **Automated Trading via Telegram:** A live trading algorithm with Telegram integration that runs on Google Cloud Platform. <http://feifanhe.com/algo-trading> - *Python*

## SKILLS

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- **Languages:** Python | Java | JavaScript | TypeScript | CSS | HTML | Bash | Node.js | Express.js | SQL
- **Frameworks:** Angular | React | Next.js | jQuery | Django | Flask | Spring Boot | Socket.io | Bootstrap
- **Cloud/Tools:** GCP | AWS | Git | Docker | Kubernetes | Jenkins | Bitbucket | Jira | Postman | Mocha | Chai