Feifan He

Website   http://feifanhe.com
Email   feifanhe@brandeis.edu
LinkedIn   https://linkedin.com/in/feifanhe

Education

- Brandeis University - Master of Science in Computer Science (2022 - 2024)
- Courses and Certifications: http://feifanhe.com/#certifications
- CFA® charterholder, CFA Institute.
- University of Toronto - Bachelor of Commerce (2013 - 2017), Graduated with Distinction

Skills

Java	Python	Bash
JavaScript	HTML	SQL
- NodeJS, Express	CSS	NoSQL
- React, AngularJS	- Bootstrap	- Mongoose/MongoDB

Projects

- **UML Class Diagram Editor:** Implemented a UML class diagram editor with the ability to create, edit, and delete classes and various relationships. (Mongoose/MongoDB, Heroku Hosting, NodeJS, Express framework, JavaScript, React, CSS, Bootstrap, HTML). - https://umleditor.herokuapp.com

- **Sudoku Game:** Created a Sudoku puzzle generator with keyboard shortcuts, and difficulty that can be chosen by the player. (JavaScript, AngularJS, CSS, HTML) - http://feifanhe.com/sudoku

- **In-place Sort Visualization**: Studied various in-place sort algorithms (Selection, Bubble, Insertion, Quick, Heap, Shell, Comb) and visualized the sorting process using front-end web technologies without the usage of external visualization libraries. (JavaScript, CSS, HTML) - http://feifanhe.com/sort-algo

- **Tree, Graph, and Grid Traversal Visualization**: Studied tree traversal algorithms (Pre-order, Post-order, In-order, Level order), graph traversal algorithms (BFS, DFS), grid traversal algorithms (BFS, DFS), and visualized the traversal process using front-end web technologies without the usage of external visualization libraries. (JavaScript, CSS, HTML) - http://feifanhe.com/traversal-algo

- **Automated Trading via Telegram**: Designed, implemented and deployed several live trading algorithms with Telegram integration running on Google Compute Engine. (Python, Robinhood Unofficial library, Python Telegram Bot library) - http://feifanhe.com/algo-trading

- **Stock Filter**: Created a stock filter that retrieves stock data using the Yahoo Finance endpoints, and implemented filters based on Mark Minervini's Pivot Volatility Contraction Pattern to identify momentum stocks with potential breakouts. (Python, Yahoo Finance Web Endpoint) - https://github.com/FEIFAN-HE/stock-filter