

Ethan Zhang

Boston, MA | (973) 935-4333 | zhang.eth@northeastern.edu | [linkedin.com/in/zhang-ethan](https://www.linkedin.com/in/zhang-ethan) | July 2025 – December 2025

EDUCATION

Northeastern University | Khoury College of Computer Sciences

Boston, MA

Candidate for Bachelor of Computer Science and Business Administration

Aug. 2023 – May 2027

- **Honors:** Dean's List (Spring 2024, Fall 2024)
- **Relevant Coursework:** Object-Oriented Programming, Algorithms & Data Structures, Computer Systems, Foundations of Cybersecurity, Mathematics of Data Models, Discrete Math, Probability & Statistics

TECHNICAL SKILLS

Languages: Java, Kotlin, SQL, Python (NumPy, pandas), R, Swift, HTML/CSS, JavaScript, C, Assembly

Frameworks: React, Node.js, MongoDB, Azure, JSON, TensorFlow, JUnit, FastAPI/REST API, Excel

Developer Tools: Git, Docker, Google Cloud Platform, Visual Studio Code, IntelliJ, Xcode

Operating Systems: macOS, Windows, Linux

PROJECTS

Matador | *Python/Swift, MongoDB, JSON, Fast API, Azure, CoinGecko/Yahoo Finance* Jan. 2025 - Feb. 2025

- Engineered a full-stack iOS app using **SwiftUI** for investors to discover stock/crypto ideas using a recommendation algorithm in **Python**
- Developed a scalable multi-tenant backend with **MongoDB** and **Azure**, reducing database query latency by **30%**
- Integrated live market data **APIs** to deliver real-time stock insights, increasing data accuracy by **15%**

Stock Market Manager | *Java, JavaSwing, REST API, JSON, JUnit* May 2024 – June 2024

- Developed an interactive portfolio manager in **Java** for users to track and manage stock portfolios using the **Model-View-Controller** architecture
- Optimized API calls using **Alpha Vantage**, reducing data retrieval time by **40%** by utilizing data caching
- Managed version control in **Git**, handling high-volume branch organization and resolving merge conflicts

CheckMate AI | *Java, JavaSwing* April 2024

- Built an AI-powered chess game with **Java** for PawHacks, featuring **3+** game modes for players to learn various strategies
- Utilized alpha-beta pruning with Minimax and **TensorFlow** neural networks, enhancing robot-decision making by **20%**
- Implemented a rule-enforced game engine with graphical user interactions using JavaFX and JavaSwing

EXPERIENCE

Front Shift Leader, IT Support

Mar. 2020 – Dec. 2024

Good Taste Chinese Restaurant

Hamburg, NJ

- Regularly diagnosed and repaired software/hardware issues on **POS** terminals, reducing downtime by **50%**
- Set up **LAN** network and performed monthly software updates, reducing latency and connectivity issues
- Increased holiday revenue by **90%** through managing high-volume operations and multitasking during peak hours
- Boosted monthly revenue by **30%** by integrating DoorDash delivery and online ordering services

Assistant Taekwondo Instructor

Jan. 2018 – Aug. 2023

Master Ken's Xtreme Martial Arts

Hamburg, NJ

- Selected to be **1 of 8** instructors by the headmaster to help lead a Taekwondo school with **350+** students
- Led **10-15** classes weekly and coordinated monthly belt testings for **75+** students, ensuring student progression
- Encouraged **20 to 25** summer campers to enroll in practice class sessions, contributing to an increase in student enrollment

INTERESTS

Investing, Competitive Taekwondo, Hackathons, Lifting, Food, Downhill Racing, K-dramas, ML/AI