

Zihan Xu

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Available: Dec 1 2024 – Sept 30 2025 | GitHub: github.com/17coco

EDUCATION

Northeastern University – Boston Campus, Boston, MA

Sept 2023 - Present

MS in Computer Science Candidate (GPA: 4.0 / 4.0)

Expected Graduation: Jan 2026

Relevant Coursework: Computer Systems, Data Structure, Algorithms, Object-Oriented Design, Machine Learning, IOS Development

Peking University, Beijing

Master's in Media Science

Sept 2021 - Jul 2023

Bachelor's in Communication and Media Studies

Sept 2017 - Jul 2021

Relevant Coursework: Human Computer Interaction, Statistics, Music & Math, Calculus, User Experience (UX)

WORK EXPERIENCE

Xiaomi Corporation, Beijing

Aug 2020 - Nov 2020

Operations and Strategy Intern

- Developed a user-friendly Python program with pandas library to categorize, filter, and analyze user behavior data and automate excel routine, improving accuracy by 50% and reducing 60% engineering time.
- Performed feature engineering for recommendation strategy based on user data. Wrote documentation of strategies for ML team.

Vitable Health, New York City

Jul 2024 - Sept 2024

Software Developer Intern

- Enhanced the user interface built with Vue.js, implementing responsive design principles and optimizing component rendering to improve load times and user engagement.
- Refined and organized the Django backend, restructuring data models and optimizing queries to reduce data retrieval time by 20%, contributing to faster application performance and better scalability for future growth.

PROJECTS

Shape Drawing Album Application (With Swing GUI and Web View) *Northeastern University*

Mar 2024 - Apr 2024

- Designed a photo album consisting of various snapshots of shapes in **Java** with a clear hierarchy of abstract and concrete classes (e.g., Album, Snapshot...etc. and the corresponding interfaces), following **the Model-View-Controller** architecture.
- Engineered a final entry point, PhotoAlbumMain, allowing users to generate an interactive photo album from a text file, viewable either through a Swing GUI or as a web-based album, dynamically created using **HTML**, with advanced **CSS** for styling and **JavaScript** for interactive functionality.
- Constructed a system with seven well-defined interfaces, each with unique implementations, following **Object-Oriented Design** practices to streamline code structure and simplify future updates or extensions.
- Developed JUnit tests, exhausting edge cases to ensure 100% code coverage and robust validation of core functionality.

Student Task Management App on iOS *Northeastern University*

Jul 2024 – Oct 2024

- Developed a student life app, including school shortcuts, campus navigation, schedule management, and task tracking, ensuring feature integration across the app.
- Designed the User Flow and **user interface** using UIKit, incorporating interactive transitions and real-time updates to improve navigation and user interaction.
- Integrated **MapKit** for real-time campus navigation and optimized location accuracy, while implementing photo features using **UIImagePickerController** to allow users to upload and manage images.
- Implemented **Firebase** for secure, real-time synchronization of user data, enabling progress tracking and multi-device syncing.
- Developed and tested network functions with **Alamofire**, ensuring stable, asynchronous API calls with comprehensive error handling and recovery for network instability scenarios.

HONORS AND AWARDS

Peking University May 4th Scholarship - \$1000

Oct 2018

Award for Contribution in Student Organizations (Guitar Association)

Oct 2018

Peking University Scientific Innovation Scholarship - \$2500/yr

Oct 2021

TECHNICAL KNOWLEDGE

Languages: C/C++, C#, Python, Swift, Java, JavaScript/TypeScript, HTML, CSS **Databases:** MySQL, SQLServer

Tools: Git, LangChain, Firebase, Pandas, Django, Vue, PyTorch, Xcode, Unity, Linux, Postman, AWS, SPSS, Node.js