

Yilu Xu

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EDUCATION

- Northeastern University** Jan 2023 - May 2025
Master of Computer Science, GPA: 4.0
Seattle
Courses: Discrete Mathematics, Intensive Foundations of CS (Python), Objected-Oriented Design (Java), Data Structures and Algorithms (C), Web Development, Cloud Computing (AWS), Computer Networking
- Columbia University** Sep 2017 - May 2019
Master of Public Administration, GPA: 3.61
New York
Research Consulting: Served as the research consultant for the Columbia SIPA Capstone project with Citi Community Capital on affordable housing
- Renmin University of China** Sep 2013 - May 2017
Bachelor of Economics, GPA: 3.78
China
Courses: Calculus, Probability & Statistics, Linear Algebra
Exchange Experience: Yale Summer Session, US and Tuebingen University, Germany

PROJECTS

Full Stack Web Application - Bubble Tea Review App

- Led a team of three to develop a bubble tea review application with **MongoDB**, **Node.js**, **Express**, **Javascript** and **Pug (Jade)** to create a delightful user experience for clients to upload product picture and leave review comments, and to support customized functionality such as querying, displaying and filtering all reviews from database
- Utilized **Wireframe** to design application **UI**, communicated fully with the teaching team and simplified the design based on users' real needs, and set up **routers** for various pages at the front end
- Managed seamless communication between front-end and back-end systems via **Node.js** and **Express** by capturing user comments, packaging it into request bodies, and saving data in **MongoDB**-based database, enabling dynamic and interactive web application
- Deployed the application on **Google Cloud Platform (GCP)**, used **Jest-Junit** for testing, and fortified application security by integrating GCP's **Identity Platform**

Task Management Application

- Led a team of three to develop a task management system in **Java** with **JavaFX** that allows users to add, modify and track the status of their Tasks, and supported customized functionality such as filtering, ranking by due date and priority, and exporting to CSV file
- Utilized **MVC** architecture, object-oriented approach, UML class Diagram to optimize software design and architecture
- Standardized the team workflow by setting up **Gradle** for build automation and **Jacoco** for testing, creating branches for teammates to share repo on **GitHub**, and hold meetings to follow up work progress

Board Game Application - Checkers

- Created a Checkers game with AI enemy using **Processing** as game engine and **Python** as scripting language
- Designed and implemented the game objects - checkers using **Object-Oriented Design(OOD)**
- Strengthened the AI-part by using depth four **Minimax algorithm** to find the best move, increasing the AI-part strength and making the game more interactive

WORK EXPERIENCE

- China Merchants Bank** May 2020 - May 2022
Headquarter Management Trainee, Wealth Management Department
China
- Conducted competitor analysis of **mobile banking applications** and discussed potential improvements for the elderly and foreigners with Fintech colleagues, **contributing to the release of app version for the elder group**
 - Customized wealth management plans with over 150 clients based on their liquidity and risk preferences, found 9 high-net-worth clients via cold call, and increased asset under management by \$3,500,000, exceeding annual target by 10%
 - Conducted data analysis based on **Python** and relational database to issue weekly report on sales performance for bank branches, supporting branch development strategy and employee performance evaluation and increasing data accuracy

SKILLS

- Programming Languages:** C, Java, Python, SQL, JavaScript, HTML, CSS
- Tools:** Git, Vim, React, Express, MongoDB, Node.js, Google Cloud, JavaFX, Gradle, Pug, Jest-Junit, Unit Test