

# Aining Li

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## EDUCATION

**Northwestern University** | Evanston, Illinois | BA in **Computer Science** | **GPA: 3.9/4.0** Expected **Mar 2025**  
**Courses:** Computer Systems, Operating Systems, Data Structures and Algorithms, Software Architecture, Databases, Computer Networks, Machine Learning, Game Design and Development, Data Privacy

## EXPERIENCE

**Software Engineering Fellow** Jul 2024 - Present  
*Headstarter* Remote

- Built 5+ AI apps and APIs using NextJS, OpenAI, Pinecone, and StripeAPI with 98% accuracy as seen by 1000 users.
- Developed projects from design to deployment using MVC design patterns.
- Coached by Amazon, Bloomberg and Capital One engineers on Agile, CI/CD, Git and microservice patterns.

**Game Developer Intern** Jun 2023 - Sep 2023  
*Xingqiwan Technology Co., Ltd* Chengdu, China

- Gained proficiency in C# and Unity, earning the Unity Junior Programmer certificate.
- Developed a top-down shooting game where the player uses various guns to defeat waves of chasing enemies.
- Enhanced UI elements for a Disney role-playing game, gaining experience in large-scale game development.

**Peer Mentor for CS150 Python Course** Mar 2023 - Dec 2023  
*Northwestern University* Evanston, IL

- Tutored 100+ students during the weekly 6-hour office hours for a **Python** course to communicate technical concepts, guide peers in problem-solving, debug, and foster a collaborative environment.

## PROJECTS

**Assignment Submission Command-Line Tool** May 2024

- Developed a command-line tool for managing assignment submissions, featuring functionalities like student/teacher creation, assignment management with submission time evaluation, PDF submission and download, grading, and viewing grade distributions with a leaderboard.
- Utilized serverless architecture and **AWS** services, including **S3**, **RDS (MySQL)**, and **API Gateway**.
- Built the client and server in **Python**, ensuring robust error handling and user input validation.

**Pocket Cats | Northwestern WildHacks 2024** Apr 2024

- Brainstormed and collaborated on a gamified expense tracking webpage in a 48-hour hackathon to encourage users to follow the 50:30:20 savings rule through virtual cat care.
- Led the creation of the frontend using **React**, **TypeScript**, **CSS**, and **HTML**, ensuring an engaging user experience.
- Presented to judges and received positive feedback, winning "[MLH] Best Use of Kintone" out of 43 projects.

**BusTub Database Project** Jan 2024 - Mar 2024

- Developed features for the BusTub relational database in **C++**: thread-safe LRU-K replacer and disk-supported hash index

**Safe Space 2D Sandbox Game** Jan 2024 - Mar 2024

- Led a team to develop a 2D pixel art sandbox game using **C#** and **Unity**, where players collect resources, build and upgrade tools, and battle monsters to build a ship and escape a dangerous planet.
- Implemented key game features including an intuitive hotkey bar, inventory system, item interactions, and integrated music and sound effects to enhance player experience.
- Managed the project with **Git** and **Trello**, ensuring effective collaboration and workflow.
- Conducted weekly playtesting with 20+ users, refining mechanics based on feedback.
- Launched on itch.io, receiving positive feedback and 20+ plays in the first week.

## SKILLS

**Languages:** Proficient in Python, C, C++, C#, SQL; Familiar with HTML, CSS, JavaScript, TypeScript, Racket

**Other Technologies:** Git, Unity Engine, AWS, NodeJS, ExpressJS, ReactJS, Shell, Linux, Markdown, OOP

**Certifications:** Unity Essentials Pathway and Unity Junior Programmer by Unity Technologies