ANGELA ZHANG

@ angelaz1@andrew.cmu.edu

O angelaz1

in angelaz122

WORK EXPERIENCE

Summer Software Engineering Intern

EA Maxis Team Q Remote

🛗 Jun '22 - Aug '22

- Led the development of a data-driven Unity-based prototype for a new gameplay mechanic to answer crucial LOD design questions
- Designed key algorithms working extensively with NavMesh and procedural generation

Summer SWE Intern - Player Services Team

Microsoft Xbox **9** Remote

🛗 Jun '21 - Aug '21

- Designed and implemented an IP Geolocation Kubernetes service for PlayFab, a backend platform hosting over **2.5 billion** player accounts for **5000** games, to provide player location information to game developers
- Automated weekly updates of database files from a Cosmos Virtual Cluster using Github Actions to ensure data accuracy
- Worked extensively with Terraform, FluxCD and Azure Resources to integrate service into existing PlayFab Kubernetes clusters and create a shareable package for other teams across Microsoft

Summer SWF Intern - Data Services Team

Microsoft Xbox **9** Remote

🛗 Jun '20 - Aug '20

- Constructed a design document and fully implemented a data migration metadata class in C# for PlayFab for thousands of database entries
- Directly interacted with CosmosDB and DynamoDB database systems in implementing and testing migration

Summer Algorithmic Design Intern

SeisWave **9** Houston, TX

🛗 Jun '19 - Aug '19

• Developed model-building algorithms in C to automate the analysis of seismic data, greatly improving accuracy and efficiency from industrystandard methods

PROJECTS

Bigger, Badder, Buggier

Web Game - UI + Gameplay Programmer

🛗 Jan '21 - May '21

- Worked with an interdisciplinary team of 20 to create a Unity game to capture the spirit of CMU Buggy Racing during the remote semester
- Implemented CPU buggies using Unity's built-in NavMesh system and added heuristics for a more engaging racing experience, such as rubberbanding speeds and interacting with items

C0 VSCode Language Support

VSCode Extension - Programmer

🛗 Nov '19 - Jan '20

- Designed and released a VSCode extension in TypeScript with a team of four other teaching assistants currently used by over 4500 students
- Improved the efficiency and understanding of student coding through providing language support features including auto-completion, syntax highlighting, and go-to

angelaz1.github.io

🗖 US Citizen

EDUCATION

B.S. in Computer Science Minor in Game Design **Carnegie Mellon University**

🛗 May 2022 🛛 🗐 GPA: 3.93/4.00

M.S. in Entertainment Technology

Entertainment Technology Center

🛗 May 2023

ACADEMICS

Operating Systems Game Development
Software Development Algorithm Design
Parallel and Sequential Algorithms
Functional Programming Data Structures
Imperative Programming
Web Development
Linear Algebra Discrete Mathematics
3D Calculus Probability Logic

TECHNICAL SKILLS



OTHER

15-122 Lead Teaching Assistant **Carnegie Mellon University**

- · Instructs an introductory imperative program-
- ming course in C with an average of 500 students each semester
- Directly manages a staff of over 40 teaching assistants