

Alvin Shi

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Experience

THE MYSTERY LEAGUE | PUZZLE DESIGNER | MAR 2021 - JUN 2021

- Designed, tested, and launched fully-featured augmented reality puzzle involving 3D models, trivia research, and GPS tracking around 13 locations on UChicago's campus
- Co-developed phone tree traversal puzzle, text adventures, and playtested other multimedia ARGs involving YouTube, Blender, and the Unity game engine

A-LABYRINTH | GAME MODERATOR | MAR 2020 - JUN 2020

- Cultivated a community of over 100 devoted puzzle solvers working to complete scavenger-hunt tasks, including statue creation, songwriting, and speedrunning
- Developed and directed graphical language for A-Labyrinth's main puzzle hub, including the main logo, challenge events, and theme hubs

HACK ARTS LAB | LAB ASSISTANT | SEPT 2019 - MAR 2020

- Collaborated with other assistants to create posters, stickers, patches, and music-playing systems for the Media Arts, Data, and Design Center
- Maintained inventory of over 200 items for patron rent, including games consoles, streaming equipment, and VR headsets
- Instructed collaborators and patrons on proper use of 3D printers, programmable sewing machines, laser cutters, and power tools

Projects & Skills

GAME DEVELOPMENT

- Unity game engine, C#, OpenGL, Twine, and GameMaker
- *Shader Experiments* leverages Unity's ComputeShaders to parallelize Eulerian fluid flows and slime molds

TECHNOLOGY

- Python, C++, C, Mathematica, ARDUINO, 3D printing
- *This is NOT a Study Space* is a DIY decibel meter displayed at the Media Arts, Data, and Design center

ART

- Blender, Adobe Photoshop, Illustrator, InDesign, AfterEffects, and Premiere
- Stylized animated .gifs of 3D scenes, game assets, VR models, and tournament posters

Education

YALE UNIVERSITY, NEW HAVEN, CT | EXPECTED 2027

- Ph.D, Computer Science | Concentration in Computer Graphics

UNIVERSITY OF CHICAGO, CHICAGO, IL | 2021

- BS, Mathematics | Minors in Physics and Media Arts and Design