CHRISTOPHER THAI

CONTACT

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▶ EDUCATION

UCLA

B.S. Computer Science and Engineering

Expected June 2019
Relevant Coursework: Logic Design of
Digital Systems, Software Construction
Laboratory, Intro to Computer Graphics,
Operating Systems Principles, Intro to
Algorithms and Complexity, Computer
Architecture, Programming Languages,
Computer Network Fundamentals, Intro to
Machine Learning

▶ SKILLS

MAIN LANGUAGES: C, C++, Python GAME MODDING/DEVELOPMENT:

C#, Unity, Valve Hammer Editor
WEB DEVELOPMENT: HTML, CSS,
Javascript (WebGL, Node, React),
Firebase

MACHINE LEARNING: Tensorflow, Keras, scikit-learn

ACTIVITIES

UCLA Game Music Ensemble.

Chamber Music Director Sept. 2015 to Current

- Student-led orchestra/choir that performs video game soundtracks
- Organizes different repertoire for chamber musicians to perform
- Works with outside organizations to help GME musicians perform outside of GME-sanctioned concerts at UCLA

National Society of Collegiate Scholars (NSCS)

Sept. 2016 to Current

UCLA Club Track and Field Apr. 2016 to Current

▶ PROJECTS

Starcraft II AI

- A convolutional neural network that learns to play the real-time strategy game 'Starcraft II'
- Implemented using OpenCV, Keras, and python-sc2 library
- Achieves approximately 60% winrate against Hard bots, 80% winrate against Medium bots
- Maps in-game information gathered from python-sc2 to an image using OpenCV, which is then fed into a convolutional neural network using Keras

cat-bot: a Discord chat bot

- A chat bot made for my friend's Discord cat-themed chat server built with Node.js and the Discord API
- Performs numerous commands, such as posting random cat pictures, querying the Oxford dictionary API, and storing Discord username and Steam/Blizzard username pairings using an SQLite database
- · Currently hosted on the Heroku cloud platform
- More commands to be added as an ongoing project

GravFest

- 2-D platforming game where the character can manipulate the direction of gravity to navigate obstacles
- Used open-source art assets to construct a 2-D environment in Unity
- Scripted key game components such as player movement, gravity manipulation, UI and health, and environment interaction using C#

▶ FMPLOYMENT

iD Tech Camps

Stanford, CA June 2017 to Aug. 2018

Instructor

 Taught and supervised weekly tech courses with up to eight highschool age students as part of a summer camp

- Courses taught include Machine Learning, Cryptography and Cybersecurity, 3-D Level Design with TF2, C++ Coding, Game Programming with Unity and C#
- Examples of class projects and activities across all classes taught include a MNIST image classifier, Linux command line scavenger hunt, password hashing implementation, SFML graphics, and a shootem-up game

Galileo Learning

Assistant Instructor

Sunnyvale, CA June 2016 to Aug. 2016

- Helped teach classes such as Video Game Design, Website Design, and Minecraft Mod Design at a summer camp for middle school students.
- Software and tools used to teach include Clickteam Fusion, Wix, Eclipse, and the Minecraft Forge API