Darica Louie

Los Angeles, CA

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SKILLS

Java, C++, C, Python, Git, gdb, Eclipse, Visual Studio, Linux, JavaScript, WebGL, HTML, CSS, Unity, PHP, MySQL, Unreal, AWS

EDUCATION

University of California, Los Angeles, *School of Engineering and Applied Science*, Los Angeles, CA

B.S. in Computer Science, 3.3 GPA   Expected Graduation: June 2020

Relevant UCLA Coursework

Intro Computer Organization, Software Construction Laboratory, Operating Systems Principles, Logic Design of Digital Systems, Discrete Structures, Computer Network Fundamentals, Algorithms, Intro Computer Graphics, Linear Algebra, Computer Systems Architecture, Programming Languages, Introductory Digital Design Laboratory, Art and Process of Entertainment Design, Machine Learning, Artificial Intelligence, Databases

PROJECTS

AR Scavenger Hunt
- Brainstorm and design of app-led scavenger hunt through UCLA sculpture garden
- Use of Maya and Unity with Vuforia to create mock-ups

Ghost Survival Game
- Design of in-browser first-person 3D game where player uses a flashlight to kill waves of ghosts
- Use of JavaScript with WebGL API to construct all the 3D shapes required of the game

Movie Database
- PHP, HTML/CSS to process user queries and access MySQL movie database

EXPERIENCE

REMAP (Center for Research in Engineering, Media and Performance), UCLA   August 2019 – Present
Undergrad Researcher
- Developed pop-up interactive exhibit using TensorFlow, TouchDesigner and AWS services
    - Reflection on cultural exchange through AI generated fusion food descriptions that reacted to exhibit participants' identity profiles
    - Preliminary research on recurrent neural networks for AI text generation
- Currently working on augmented reality project for immersive theater using Unreal engine (slated for run in Fall 2020)
    - Preliminary research on UI design requirements for handheld AR device
    - Object grouping and visibility manipulation tests in Unreal

East West Players, Artists at Play, Los Angeles, CA   June 2018 – Present
Intern/Independent Contractor
- Production internship at EWP working on casting, licensing, and theater maintenance
- Independent contracting as Assistant Stage Manager, Lightboard Operator, and Electrician

Santa Monica Chorus, Santa Monica, CA   May 2018 – Present
Webmaster
- Redesigned public site using a choir-specific CMS, ChoirGenius, and technical support for members

Shine On Collective, Los Angeles, CA   June 2018 – July 2018
Production Manager
- Set-up and managed Bluetooth audio devices for live immersive experience
- Managed rehearsal and performance schedules

Lapu, the Coyote that Cares Theatre Company, Los Angeles, CA   June 2017 – June 2018
Producer
- Oversaw the budget, wrote grant proposals, and raised $20,000 to cover company operation
- Managed department officers and 40+ members
- Planned quarterly theatre performances, educational retreats, entertainment industry panel
- Wrote and directed original musical and play
- Communicated with entertainment industry professionals