Brandon Hua

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Education

University of California, Los Angeles

Expected Dec 2022

M.S. Computer Science

GPA: 4.0

University of California, Los Angeles

Sep 2015 - Aug 2019

B.S. Computer Science

GPA: 3.75

Skills

Programming: C++, C#, Python, Javascript, HTML, CSS

Other: Git, Perforce, React, Node.js, MongoDB, OpenGL, Unity

Experience

Software Engineering Intern at Dolby

Sep 2019 - Jun 2020

· Wrote profilers using OpenGL to measure GPU costs of HDR image blending

C++, OpenGL, Python

 Prototyped and tested an algorithm used to reduce CPU usage during the display of Dolby Vision encoded videos

Game Development Intern at Scientific Games

Jul 2021 - Present

 Developed a "progressive scroll" feature to advertise potential jackpot winnings to slot machine players Unity, C#

Unity, C#

· Implemented "backdoor jackpots" into a slot machine game to keep long-term payouts between legal bounds

Projects

Domino Simulator

Sep 2018 - Dec 2018

A domino structure building sandbox game for PC.

- · Implemented player-drawn Bézier curves as a streamlined method for placing dominoes
- · Serialized game state for easy storage and retrieval of player data
- Participated in group discussions, involving design patterns and UML diagrams, to design overarching code structure

Blogging Server

Sep 2018 - Dec 2018

A MEAN stack blogging website.

MEAN, JavaScript

- Implemented REST API calls used to save, retrieve, and update blog posts
- · Used Angular to develop dynamic UI to help users write, update, and publish blogs
- · Employed JSON Web Tokens to establish secure, authenticated sessions with users

IMDB Clone Website

Apr 2018

A movie database website modeled after IMDB.

PHP, Bootstrap, SQL

Used the Bootstrap front-end framework to create user-friendly, responsive web pages

· Sanitized user inputs and added integrity constraints to prevent database corruption

Activities

UCLA Association for Computing Machinery

Sep 2017 - Jun 2019

Completed year-long group-based game development projects, honing skills in game design and programming