BRETT —— HICKMAN

Programmer - Designer - Creator

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PROFILE

Experienced and self-motivated computer scientist with a passion for blending technology and artistic vision, seeking to make an impact in the field of creative computing.

EDUCATION

2018 - 2023

COMPUTER SCIENCE

California Polytechnic State University

STRENGTHS

Extensive knowledge of C / C++

Linear Algebra / 3D Math

Java, Python, C#, Javascript

Unity Development

Computer Animation

Graphics Pipeline / 3D Engines

Debugging / Refactoring

Inverse Kinematics

Unix and Linux Development

Time Management

Collaboration

Project Management

INTERESTS

D1 Track and Cross Country Running

Graphic Design / Art

Music Production

PROJECTS

See my **portfolio** (linked above) for further details

VIRTUOSOS Timeline: 1 year SKILLS A fully released rhythm / story game made in Unity Unity

Programmed rhythm detection and visual systems

Designed animation systems with rigging and event triggers
 Collaborated with artists, animators, musicians, and writers

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GUNFIGHT Timeline: 6 months +

Online multiplayer shooter that is coming to Steam

· Independently acquired networking skills

· Task-focused Project Manager skilled at organizing

Restructured my code for improved clarity and performance

3D game engine made with OpenGL and C++

EXP

Engineered a particle system with multiple applications

Incorporated shadow mechanics and spatial audio features

Acquired an in-depth grasp of the graphics pipeline

SKILLS

Animation

Teamwork

SKILLS

Networking

Leadership

Refactoring

Publishing

C#

C++

Particles

Instancing

Graphics

GAME JAMS Timeline: 48 hours/ea | SKILLS

Timeline: 3 months

Multiple projects made within tight deadlines

Prototyped and iterated on gameplay ideas quickly

Embraced challenges posed by limited resources

· Composed dynamic music and sound effects

SIKILLS

Adaptation

Time Mgmt

Rapid Dev

Collaborate

WORK EXPERIENCE

TECHNICAL ADMINISTRATOR

Immersive Learning Research Network - California

6/24/23 - 6/30/23

Supported XR conference tech issues and execution, ensuring smooth operation.

IT / OPERATIONS

Clearsource - California

6/12/22 - 9/5/22

Demonstrated multitasking skills, managing IT & operational tasks collaboratively.