

Ethan Buttimer

COMPUTER SCIENCE · COMPUTER GRAPHICS ENGINEERING · 3D ANIMATION PRODUCTION

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Education

University of California, Berkeley

Fall 2018 - Spring 2022

PURSuing B.A. IN COMPUTER SCIENCE AND CERTIFICATE IN DESIGN INNOVATION. GPA: 3.96

Coursework: Computer Graphics (C++, OpenGL), 3D Modeling and Animation (Autodesk Maya, Houdini, Python, MEL), Intro Functional Programming (Python, SQL), Data Structures (Java), Discrete Math and Probability Theory, Design Methodology, Linear Algebra and Differential Equations, Multivariable Calculus, Circuits and Intro ML, Virtual Reality (C#), Film History, Computer Architecture (C, RISC-V)

Activities: Pianist in Chamber Music Ensemble, Cal Hiking and Outdoor Society (CHAOS), Intramural Soccer, Upsilon Pi Epsilon CS Honor Society

Honors: Sigma Phi Epsilon Balanced Man Scholarship Winner, National Merit Scholarship Winner

The Animation Collaborative

Fall 2019

INSTRUCTOR MICHAL MAKAREWICZ OF PIXAR ANIMATION STUDIOS

Coursework: Fundamentals of Animation

Experience

3D Modeling and Animation at Berkeley

Jan 2020 - Present

UCBUGG COURSE FACILITATOR AND 3DMA TREASURER

- Delivered lectures and prepared lab assignments related to the 3D animated film pipeline
- Provided guidance and technical support to student production teams
- Organized and promoted campus events to engage with the computer graphics industry
- Managed club finances and participated in leadership team meetings

Geopogo AR

Aug 2020 - Present

SOFTWARE ENGINEERING INTERN

- Designed user interfaces for a Unity-based architectural modeling product
- Developed a tool to procedurally generate curved walls in real-time, based on user-driven Bézier splines

Coding4Youth Inc.

Jun 2019 - Sep 2020

COURSE CONTENT DEVELOPER AND ONLINE PROGRAMMING INSTRUCTOR

- Created projects, quizzes, and lecture slides for courses on HTML/CSS/JS, Scratch, Roblox Studio, and Lua
- Taught interactive courses on creative programming and game development to nearly a hundred students

Digital Porpoise LLC

Summer 2017, 2018

WEB DEVELOPMENT INTERN

- Configured and tested a software product using an agile bug-tracking tool (Pivotal Tracker)
- Revised marketing content and created a help system for the company webpage
- Managed email campaigns (Mailchimp), CRM (Insightly), and social media posts

Projects

Path-Traced Blackbody Glow Simulation

Spring 2020

SOFTWARE DEVELOPMENT TEAM MEMBER, COMPUTER GRAPHICS AND IMAGING (CS184) FINAL PROJECT

- Programmed emission and reflection calculations based on material attributes, temperature distributions, and physical laws
- Implemented core path-tracing algorithms in C++, custom COLLADA file format
- Conducted performance testing and implemented color spectrum caching

Special Order (UCBUGG 3D Animated Short Film)

Fall 2019

PROJECT MANAGER, PRODUCTION TEAM MEMBER

- Designed, modeled, and shaded 3D characters and assets (Maya, Mudbox, Substance Painter, Photoshop)
- Rigger and animated characters, vehicles, and cameras
- Lit, rendered, and composited several final shots (RenderMan, After Effects)