

# Truman Costello

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## EDUCATION

### University of Southern California

Los Angeles, CA | May 2025

BSc. COMPUTER SCIENCE WITH GAME DEVELOPMENT SPECIALIZATION

BSc. APPLIED & COMPUTATIONAL MATHEMATICS

Teacher Assistant (TA): English as a Second Language for International Phd Candidates in STEM

## MAJOR RELATED EXPERIENCE

### IOT ONE | UX / UI DESIGN FELLOW

Remote | May 2021 – Jul 2021

- Interpreted user experience information in Hotjar to make UI/UX suggestions for their main webpage using Figma

### MICROSOFT | SOFTWARE DEVELOPMENT MENTEE

Remote | Jan 2021 - May 2021

- Paired with an individual Microsoft software engineer
- Worked through and taught strategies to solve demo software engineering problems in C++
- Implemented basic software projects using the **Scrum** Framework

### KEYSIGHT TECHNOLOGIES | SOFTWARE ENGINEER INTERN

Santa Rosa, CA | Jan 2019 – May 2019

- Wrote a GPS from scratch in C++ using Keysight hardware
- Triangulated position of various drones using radio and cell tower signals

## PROJECTS

### AI EDUCATION APP

C++, REACT, POSTGRESQL

Education app using a machine learning applications of a stochastic shortest path algorithm for optimizing spaced repetition scheduling

### CODE JUDGE PLATFORM

VUE.JS, JAVA SPRINGBOOT, C++, MYSQL

A full-stack online code judge platform, where users can run C++ files and compare outputs to an expected txt. Backend written in from scratch using multithreading in Java

### TUMBLEWEED

C#, UNITY UNIVERSAL RENDERING PIPELINE, CONCURRENCY

Movement based first person shooter prototype with local co-op and controller support

### LIGHTRIDE

C#, UNITY

2D physics puzzle prototype where turning on and off lights allows a ball to move

### COLORBOUNCE

C#, UNITY, ANIMATION, POST-PROCESSING

One button arcade style game reminiscent of a modernized Pong

### SENTIMENT TRADING BOT

PYTHON, PANDAS, PYTORCH, POSTGRESQL, NLP

LSTM recurrent neural net creating expected stock price changes based on social media sentiment around a given stock

## OTHER WORK EXPERIENCE

### STUDY HALL | BARTENDER / SERVER

Los Angeles, CA | Aug. 2023 – Present

### 양명고등학교 | ESL TEACHER ASSISTANT

경기도 안양시 | Oct 2019 - Dec 2019

### BOHEMIAN CLUB | ASSISTANT VALET AND BUS OPERATIONS MANAGER

Monte Rio, CA | May 2020 - Jul 2019

### PEACEHEALTH ST JOHN MEDICAL CENTER | VOLUNTEER

Longview, WA | Aug 2016 - Jun 2017

## SKILLS

Languages: C++, Java, Python, C#, Dart, SQL

Web Development: React, JavaScript, TypeScript, HTML/CSS

Technology: Git, AWS, Docker, Unity, Tauri, Vue.js, Springboot