

Brandon Eng

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Education

California Polytechnic State University, San Luis Obispo
BS: Computer Engineering

September 2012 – December 2016

Skills

- Programming Languages – Java, C, C#, Python, C++
- Tools – Eclipse, Unity, Greenfoot, Inform7, OpenGL

Related Coursework

Systems Programming

Introduction to Computer Security

Introduction to Operating Systems

Introduction to Computer Graphics

Design and Analysis of Algorithms

Interactive Entertainment Engineering

Projects

RGB Painting Simulation – C#, Unity

December 2016

- Used RGB color system to create a painting simulation
- Implemented RenderTexture and Texture2D to create the painting

Bottle Brigade – Mechanical Design Lead – AutoCAD

March 2016

- Created a baby bottle sleeve to track the usage of the bottle
- Designed the encapsulation that houses the hardware

Writer's Block – Java, Greenfoot – Global Game Jam

January 2016

- Built over 48-hour hackathon with a 3-person team
- Strategize against an opponent using various Shakespeare characters
- Used procedural generation to develop the board

Gravitas Cecidisse – Inform 7

January 2016

- Escape the various rooms by decoding the various ciphers in this text adventure
- Locks are encoded using Caesar, Atbash, A1Z26, and Vigenere Cipher

Linear Sim – C

March 2015

- Simulates heat transmission and spread from one or two sources over a set number of cells
- Used piping and forks to distribute and retrieve data

LZW Decompression – C

February 2015

- Decompresses LZW compressed files and presents output
- Used bit manipulation to convert compressed data into ASCII

Carrot Hunter – Java, Processing

May 2013

- Traverse a hedge maze to collect carrots, while avoiding rabbits along the way
- Used OpenGL to create the player, rabbits, and treasures

Experience

Counter Help at *Panda Express*

October 2017 – Current

- Greeted and assisted customers in fast-paced environment

Cashier at *Cathay Kitchen*, San Mateo

2009 – 2015

- Took on other roles in the restaurant such as busser and waiter
- Delivered food to neighboring establishments

Volunteer

Friends of the San Francisco Public Library