Zachary Light

Education:

Bachelor of Science in Computer Science and Engineering (Anticipated May 2019)

3.22 GPA at University of California, Merced: Merced, CA

Relevant Coursework:

Algorithm Design and Analysis, Data Structures, Software Engineering, Object Oriented Programming, Operating Systems, Computer Networks, Image Processing, Robotics, Artificial Intelligence

Tech Skills: C/C++ ◆◆◆◆◆ Python ◆◆◆◆ Git ◆◆◆◆

Related Projects:

P2T (Picture 2 text):

Java for Android

A note-taking app allowing the conversion of slides to text, also allowing dictation to text. Holds a file organization, editing, and sharing system. A group project for a Software Engineering class

- Uses Google API for picture to text conversion
- · Uses android dictation for audio to text
- File editor to allow manual correction of mistakes
- File directory system to allow easy organization
- Tested through internal tests, unit tests, stress tests, and application tests

BobcatClassAlerts.com:

Python backend with HTML5, PHP, and JSON

A website that sends an alert via email when there is a seat available in a class at UC Merced

- Parses HTML data to read open classes from the school website
- Uses PHP form submission to add classes mid-run
- Uses JSON to store requested classes, easily allowing for the addition of classes or students
- Ensures a sufficient wait time between requests to avoid putting stress on the school's server

Brick-Breaker:

C++ with OpenGL

A rendition of the classic game Breakout, done for my final project in Object Oriented Programming

- Utilizes Object-Oriented concepts I was able to create a dynamic and easily expandable game
- Uses OpenGL to draw graphics
- Used github for group collaboration and version control

Robotics-Maze/Treasure hunt

C++ with ROS

Final Project for my Robotics class

- Utilizes ROS concepts to allow a Husky Robot simulation to traverse a maze
- Uses the camera to find and define hidden objects in said maze
- Used github for collaboration and version control