

Matthew Roberts

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SUMMARY

California State Polytechnic University of Pomona alumnus with an ambition to gain professional experience as a software/game developer with prior experience in leadership and teaching roles.

EDUCATION

California State Polytechnic University, Pomona

May 2020

B.S in Computer Engineering: 3.75 GPA

RELEVANT SKILLS

- C Languages (C++, C#, C)
- Git/GitHub
- Python
- Android Studio, Kotlin
- Verilog/VHDL
- HTML5 and CSS
- Data Structures and Algorithms
- API's
- Unity and Unreal Engine 4
- Linux/Command Line (Ubuntu/i3)

PROJECTS

Embedded SoC (Fall 2019)

- Created a SoC on an FPGA. We would create cores that would communicate with the processor on the hardware level and create drivers that would create a system usable for programmers.

Arcade Machine via FPGA (Fall 2018)

- Created hardware using Verilog that would simulate an arcade machine. Worked with group members to create classic arcade games like *Snake* and *Pong* on an FPGA board and display the game using VGA.

Pin-it (Android Application) (Spring 2020)

- Developed an Android application using Android Studio. Application was developed in Kotlin and SQL.
- The application would allow users to upload photos and pin the location of the photo onto a global map that was shared by users.

Spotify Playlist Generator (Spring 2020)

- Python application that would generate Spotify playlists from YouTube playlists.
- Project required the use of Spotify API and YouTube Data API.

WORK/CLUB EXPERIENCE

iD Tech Camps - California Institute of Technology, Instructor

(Jun '19-Aug '19)

- Taught weekly programming and design courses to children ages 10-17 years old.
- Course topics would range from programming Arduinos, designing games in Unreal Engine, and creating games in VR using Unity.

CPP Game Design and Development Club, Club Member

(Jan '19-Mar '20)

- Would attend weekly meetings to learn more about game design, occasionally work on group projects.

REFERENCES

Sara Gutkind, Director From iD Tech

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