

Joshua Beto

COMPUTER SCIENCE STUDENT

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Education

University of California, Riverside

Riverside, CA

B.S. IN COMPUTER SCIENCE | GPA: 3.92

Expected Graduation: March 2019

- CS130: Computer Graphics
- CS171: Machine Learning
- CS166: Databases
- CS135: Virtual Reality

Technical Skills

Languages C++ (Proficient), C# (Proficient), Python(Proficient), C (Familiar), Bash (Familiar)

Libraries | Tools Git, Unity3D

Experience

UCR

Riverside, CA

SUPPLEMENTAL INSTRUCTION LEADER

September 2018 - Present

- Led a peer study group through an introductory C++ course to boost academic performance
- Created lesson plans and problem sets each week to organize study sessions
- Guided students to avoid common pitfalls and gain a better understanding of the course material

Western Digital

Irvine, CA

RAMP SOFTWARE INTERN

June 2018 - September 2018

- Migrated firmware automation test client using Python to reduce future work needed to add new test environments
- Created plugins that allowed test environments to interface with the automation test client
- Collaborated with a partner using the Gitflow workflow to complete user stories in a Scrum environment

MindTAPP - Leadership Lab

Riverside, CA

RESEARCH ASSISTANT - SOFTWARE DEVELOPER

May 2017 - Dec. 2017

- Led a small team to create games for leadership training using Unity3D C#
- Made games easier and faster to develop by restructuring code base using Zenject, a DI framework
- Communicated project status and problems weekly with management to set checkpoints, deadlines, and next steps

Projects

3D Tile Map

Riverside, CA

SOFTWARE DEVELOPER

Jan. 2018 - May 2018

- Created a procedurally generated 3D tile map in Unity3D C#: https://github.com/JBeto/3D_Tile_Map
- Generated procedural terrain using Perlin noise and used linear interpolation to remove visual cracks between tiles
- Optimized performance by joining tile meshes into mesh chunks to reduce object overhead

Guitar-Hero

Riverside, CA

CS120B: EMBEDDED SYSTEMS

Feb. 2017 - March 2017

- Built a Guitar Hero inspired hardware game on the ATmega1284P microcontroller in C: <https://goo.gl/UNdZZr>
- Simplified code design and debugging process by separating functionality into different state machines
- Configured hardware components to take player input, play a song, and display notes

Extracurricular

ACM-ICPC (International Collegiate Programming Contest)

Riverside, CA

TEAM MEMBER

November 2018

- Placed 15th among 90+ teams in regional SoCal ICPC 2018 contest
- Practiced competitive programming problems using C++ with teammates for a year prior to the contest