

Joshua Barrientos

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OBJECTIVE

Software Engineer with a bachelor's in computer science looking to expand and grow in the industry.

Clearance: Secret/SAP

EXPERIENCE

Northrop Grumman

07/2023 – present

Pathways Associate Software Engineer

- Supported Modeling and Simulation Team efforts in radar analysis and customer presentation.
- Identify causes of logic errors within a complex C++ code baseline advisory of M&S system engineers.
- Created python scripts to visualize data points into bokeh plots.
- Used Agile methodology and experienced use of the tools Jira and Gitlab to determine tasking.
- Collaborated and participated in regularly scheduled meetings regarding work and overall program status.
- Manually integrated updates of a complex code base into the program's copy of the codebase.
- Documented workflow and processes regarding the Simulation runs to determine future ability to replicate, change input parameters, and discern the soundness of the output data.
- Repurposed a MATLAB script to loop over files over a chosen directory.

EDUCATION

California State Polytechnic University, Pomona

5/2023

Bachelor of Science in Computer Science

GPA: 3.65

Dean's List (fall 2019, spring 2021, fall 2021)

Notable Courses:

Data Structures and Advance Programming, Design and Analysis of Algorithms, Introduction to Programming and Problem solving, Software Engineering, Computer Graphics, Object-Oriented Programming, Radar101.

ACADEMIC PROJECTS

VR lab, Carnival Game Simulator [Project Link](#)

Spring 2022

- Gained experience creating a virtual reality environment using VR technologies such as Unity, the HIVE pro Headset, and the Meta Quest 2
- Transfer and collaborate work using Git Bash and GitHub
- Create C# scripts to create in game mechanics and interactions.

Simple Twitter Application [Project Link](#)

Fall 2022

- Showcased understanding of object-oriented programming design patterns such as singleton and composite pattern.
- Used knowledge of java swing to create UI components.

Skills

Languages: C/C++, Python, MATLAB, Java, MIPS assembly, HTML/CSS, C, Kotlin

Technologies/Environment: Linux, Visual Studio, VS code, Unity, Bitbucket, Jira, Beyond Compare, Git and GitHub, Gitlab, Android Studio, Spyder.

CERTIFICATION

Walmart Global Tech Virtual Experience Program

2022

CodePath Intermediate Android Program

2022