Grant Gurvis

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EDUCATION

University of South Florida

Tampa, Florida

Computer Science, Minor in Mathematics, GPA: 3.35 Comp Sci GPA: 3.58 August 2018 - December 2021

• Select Coursework: Computer Architecture, Object Orientated Design, Data Structures, Analysis of Algorithms, Operating Systems, Automata Theory, AI (Spring '21), and Compilers (Spring '21)

EXPERIENCE

USF Society of Aeronautics and Rocketry

Tampa, Florida

IREC Payload Lead and Chief Technical Officer

November 2018 - present

- IREC Payload Lead: Created a payload for a sounding rocket that is planned to go 30,000' which has a custom altimeter with a microwave radio to send telemetry to ground during flight.
- Chief Technical Officer: Created a new website for the organization as well as designed promotion material.
- Outreach: Volunteered at multiple events to help under privileged students and Girl Scouts to earn a mechanical engineering badge through learning about rockets and engineering.

PROJECTS

- Ray Tracer: A path tracer that supports parallel execution, .obj loading, BVH acceleration with a command line interface that will support most file types for output as well as a WASM based site.
- 6502 Emulator: Implemented full 6502 instruction set emulated in Rust that supports all indexing modes and is accurate to the cycle. Supports extendability via easily implementable memory maps.
- 6502 Assembler: Implemented 6502 assembler in Rust that allows for flexibility in the assembly while still being able to assemble into a binary for the emulator or hex codes plus a debug mode.
- Vote Chair: A voting website designed for the UCF Knight Hacks 2020 Hackaton. Designed the front end using React and back end using Express.
- Machine Learning Meme Generator: Used Keras and Tensorflow with Python to predict what would follow based on training on the book Moby Dick, then formated that prediction in a standard meme format. Won second place in the USF HackJam hackathon in November 2019.

SKILLS

- Programming: C, C++, Rust, Python, Java, C#, Haskell
- Web: HTML5, CSS, Javascript, TypeScript, React, Express, WebAssembly
- Creative Software: Premiere Pro, After Effects, Photoshop, Illustrator, GIMP, Inkscape
- Git: Git with GitHub/GitLab
- Operating Systems: GNU/Linux(Arch, Ubuntu), Windows, macOS
- LATEX: This resume was written in LATEX
- 3D Graphics Software: Fusion 360, Blender, Unity, Unreal Engine