

Hunter Rick

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EDUCATION

California State University, Chico
*Bachelor of Science in **Computer Science***

December 2022

Dean's Honors List

May 2022

I have attained a 3.5 GPA or higher for units taken this semester.

RELEVANT WORK EXPERIENCE

DataAnnotation

January 2024 - Present

Software QA for AI Models

AI/Machine Learning, C++, C, Python, Numpy, GDB, Linux

- Conducted the training of AI chat models in diverse programming languages, including C, C++, Python, JavaScript, and HTML, utilizing intricate tasks with unique constraints. Conducted rigorous evaluation of two model responses, providing insightful explanations on the superiority of one over the other.
- Systematically tested and debugged code, along with mathematical formulas supplied by AI models, to facilitate the learning process by addressing and correcting errors.
- Employed sophisticated prompting techniques, including Chain of Thought prompting, Self Consistency, and few-shot prompting, to elicit nuanced and accurate responses from AI models.
- Demonstrated effective time management skills, efficiently conducting 3-5 round conversations within an hour while maintaining a focus on accuracy and quality. Tracked and meticulously logged working hours for precise record-keeping.

OPEN SOURCE CONTRIBUTIONS

Roc Toolkit | *C++, C, Python, Docker, CppUTest, Linux, API, SCons*

November 2023 - Current

- Currently implementing a more time efficient C library than Sound eXchange (SoX) to wirelessly send audio files using real-time protocols via CLI tools
- Working on unit tests via CppUTest's library for the newly implemented C Library
- Modifying build scripts inside various Docker Images of Linux Distros to test for operating system compatability
- Consulted with a developer team and their documentation via chat to resolve the issue in a 100,000+ line large code base
- Programmed a CLI argument to show list of supported audio interfaces and corresponding audio protocols based on audio backends present
- Followed Continuous Integration and Development (CI/CD) and adhered to coding contribution guidelines with the use of GitHub Actions

PROJECTS

Audio Distortion Effect Plugin | *JUCE, CMake, C++, Linux Mint*

December 2023 – Current

- Creating a VST3 Audio Plugin that applies a three possible distortion algorithms with modular settings
- Set up the build environment for testing and production with CMake scripts pulling from GitHub repositories
- Front-end UI custom built for a sleek and user-friendly experience

Pathfinder 2e Initiative Tracker | *C++, fastjson, Bash, GNU Make*

January 2023 – October 2023

- Developing an offline app that handles the initiative rules for the table top role playing gaming pathfinder 2e
- Utilizing fastjson library to read in JSON formatted character and enemy stat blocks from third party sources
- Tracks turn order, rounds, conditions, and persistent damage with maps for each combatant and allows for automatic rolls of dice based on read in json input

TECHNICAL SKILLS

Languages: C++, C, Python, Javascript, SQL, Bash Scripting, Go, HTML, CSS

Frameworks: React, Django, Vite

Developer Tools: CMake, CppUTest, Firebase, Vercel, Linux, Google Cloud Platform/GCP, Wireshark, VMware, VirtualBox, GDB, Git, MariaDB, SQLite

Libraries: Selenium, mpi, pthreads, openMP, fastjson, ncurses, QT Creator

Concepts: CI/CD, Audio Processing, tcp/ip, Data Structures, Algorithms, Debugging, Unit Testing, Computer Architecture, Documentation, Objected Oriented Programming, Parallel Computing