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Edward Seymour

EDUCATION

The University of Texas at El Paso (UTEP)

Bachelor of Science in Computer Science, Major GPA: 3.80 *Expected Graduation: May 2019*

Relevant Coursework: NLP, ML, Game Theory for Security, Reverse Engineering, OS, Networks

Carnegie Mellon University (CMU)

Partial credit towards Bachelor of Science in Computer Science *Aug 2012–May 2015*

SKILLS

- Experienced working with Git, C, Go, CMake, Make, Google Test, and MSP430 Assembly
- Familiar with Python, C++, unit testing, Android NDK, networking, Ruby, SQL, and Java
- Native English and Spanish speaker with basic Turkish and Japanese knowledge

PROJECTS

Freudensong App for Android

Kotlin, C++14, Android NDK *freudensong.com* *Nov 2017–Present*

- Created an app that helps bad singers sing on pitch using digital signal processing techniques
- Interfaced with the Freudensong Core Library using the Android Native Development Kit

Freudensong Core Library

C++14, CMake, Google Test *Jun 2017–Present*

- Authored a portable digital signal processing library currently deployed on Android and iOS
- Automated smoke, unit, and integration tests on Clang and GCC on Linux and macOS

ZTodo

Python 3, NLTK *Oct–Dec 2018*

- Developed a classifier extracts tags tasks within a class lecture with a classmate
- Trained model on approximately 1000 hours of subtitles from MIT OpenCourseWare lectures

Hack Emulator

JavaScript *Apr 2016*

- Achieved a 40x speed improvement over the nand2tetris.org emulator by using web workers allowing the emulator to run on a separate process without blocking the render thread

EXPERIENCE

Software Engineer

Freudensong LLC, Professor Led Startup, Part-Time *Jun 2017–Present*

- Leading development of the Freudensong App for Android and the Freudensong Core Library
- Using Git, CMake, and Google Test in daily work for more robust and modular code

Undergraduate Teaching Assistant

UTEP Computer Science Department, 10 hours per week *Aug 2017–Present*

- Assisted in the OS, Networks, and Computer Architecture courses, each with up to 80 students
- Graded and helped students with labs written in Python, C and MSP430 Assembly