

Edward Seymour

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EDUCATION

The University of Texas at El Paso (UTEP)

Bachelor of Science in Computer Science, Major GPA: 3.75

Expected Graduation: May 2019

Relevant Coursework: NLP, 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

Minesweeper on the MSP430 Microcontroller

MSP430 Assembly, C, Make

Apr–May 2017

- Adapted project to limited resources—only 512B of RAM and 16KiB of flash were available
- Developed a sprite library that drew pixels 5x faster than the provided graphics library

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 Developer

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 Operating Systems and Computer Architecture courses, each with ~80 students
- Graded and helped students with labs written in Python, C and MSP430 Assembly