

Eric Seals

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EDUCATION

University of Kansas

Lawrence, KS

MS, Computer Engineering, GPA 4.0/4.0

Aug 2020 – May 2022

Advisor: Prof. Heechul Yun

B. Sc., Computer Engineering, GPA 3.72/4.0

Aug 2017 – May 2020

PROFESSIONAL EXPERIENCE

Garmin International

Olathe, KS

Software Engineer Intern

Nov 2020 – Present

- Debugged several issues on the Garmin Overlander and other GPS devices.

University of Kansas

Lawrence, KS

Graduate Teaching Assistant

Aug 2020 – Present

- Explained technical topics related to embedded systems and real time applications.

Undergraduate Research Assistant

Apr 2019 – May 2020

- Advisor: Prof. Morteza, Hashemi
- Designed and built the project Sharp Edges - a research project to study the performance gains via Mobile Edge Computing.
- Accomplished with an Android application and a server implementing an Object Detection Model.

PROJECTS

Sharp Edges, github.com/SharpEdgesAndroid

- Demonstrated the substantial performance increase of dedicated servers on-the-edge vs on-device bybuilding a Client/Server system written in Kotlin and Java.
- This worked by running the computationally demanding YOLOv3 Object Detection Model on thephone and offloaded to the server.

Quash “Quite a Shell”, github.com/Quash

- Programmed a Shell for the UNIX Operating System.
- Created features like pipes, main and background thread execution, signal handlers, and job status reports with C using POSIX libraries.

AudioBud, [github.com/AudioBud-Chrome-Extension](https://github.com/sergey-tykhonov/audio-bud-chrome-extension)

- Created an audio visualizer and modulator for both the frequency spectrum and time domain.
- Built as a Chrome Extension with JavaScript using the Canvas and Web Audio APIs.
- Implemented digital audio filters, user interactivity via an options menu, and the visualizer's interface.

SKILLS

Programming C/C++, Python, Haskell, L^AT_EX, Javascript

Tools Vim, Tmux, Git, Linux

Languages English, French

AWARDS

- 1st Prize at Hackathon, HackKU *2020*
- Eta Kappa Nu, KU's Gamma Iota Chapter *2019*
- Eagle Scout, Boy Scouts of America *2013*