ERIC SEALS

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Education

University of Kansas Lawrence, KS
***M.S. Computer Science**, College of Engineering* *Aug 2020 - May 2022*

- Cumulative GPA: 3.63/4.00
- Advisor: Heechul Yun

University of Kansas Lawrence, KS
***B.S. Computer Science**, College of Engineering* *Aug 2017 - May 2020*

- Cumulative GPA: 3.72/4.00

Experience

GARMIN Olathe, KS
Software Engineer Intern *Nov 2020 - May 2021*

- Developed new software in C/C++ for the Garmin Tread and other Automotive GPSdevices to improve performance and lower latency.
- Rewrote code to fix bugs, polish the UX, and increase general usability and enjoyment ofTread in anticipation for its launch.

KU School of Engineering Lawrence, KS
Graduate Teaching Assistant *Aug 2020 - Present*

- Explained technical topics related to embedded systems and real time applications.
- Designed a final project for the course where students utilize concepts like PWM, LIDAR,UART, and I2C with the DeepPiCar platform to build an autonomous RC car.

KU ITTC Lawrence, KS
Undergraduate Researcher *Apr 2019 - May 2020*

- Contributed to AT&T Labs research in detecting network anomalies for over 250 million 5G customers nationwide:
  - Developed a Python application for centralizing virtual network function data with an Apache Pulsar message bus (like Kafka)
  - Processed data with Python and Apache Flink data stream computation engine (like Hadoop and Spark)
- Designed and built the project Sharp Edges - a research focused project to study theperformance gains realized with Mobile Edge Computing (servers on-the-edge vs on-device).

Projects

- **Sharp Edges:** App and Server to study the performance gains with Edge Computing, github.com/sharp-edges-android
  - Built a Client/Server system via an Android application in Kotlin and a server in Java -both implementing an Object Detection Model.
  - Collected results by running and comparing the computationally demanding YOLOv3Object Detection Model on the Android app vs the Java server vs a powerful cloud server.
- **Quash "Quite a Shell":** Shell for the UNIX Operating System, github.com/Quash
  - Created features like pipes, main and background thread execution, signal handlers, andjob status reports with C using POSIX libraries.
- **AudioBud:** Audio Visualizer Chrome Extension, github.com/AudioBud-Chrome-Extension
  - Created an audio visualizer Chrome Extension with JavaScript using Canvas and WebAudio APIs.
  - Implemented digital audio filters, user interactivity via an options menu, andthe visualizer's interface.

Skills

Languages: C++, C, Python, Haskell, Latex

Tools & Technologies: Linux, Git, CUDA, OOP, Tmux, Vim, UnrealEngine