GAVIN
EPPERSON

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EDUCATION

B.S. Computer Engineering | University of Central Arkansas (UCA)
AUG 2018 – MAY 2022 (EXPECTED)
- GPA: 4.00
- Norbert O. Schedler Honors College

EXPERIENCE

Software Engineering Intern | Cerner
MAY 2021 – JUL 2021
- Worked over the summer with Cerner's Java Service Platforms team
- Ported legacy Java code to a JHipster web service
  - Adapted Cerner's Enterprise Tools Eclipse plugin used for internal code testing
  - React front-end form sent user code input to Spring API to test code against internal database
  - Responses were received by the front-end using asynchronous functions

Intelligent Embedded Systems Lab Research Assistant | UCA
OCT 2019 – DEC 2020
- Research Assistant to Dr. Ahmad Patooghy of the Computer Science Department
- Programmed a Raspberry Pi to read from piezo sensors and microphones while regularly taking pictures using multithreading in Python.
- Researched evolvable machine learning to enable AI in embedded systems
  - Investigated methods to improve time efficiency when using random decision forests on Arduino Unos

PERSONAL PROJECT

Laundry Monitor Site
MAR 2020 – DEC 2021
- Creating a website where anyone in a dorm can see if washers or dryers are currently in use
- Microcontrollers send accelerometer data to database via API that allows the front-end to access that data
- Familiarized me with IoT concepts, website and API building, and SQL database functionality
- Front-end is made with Angular 12, the server and API with Express.js, and the database with MySQL

SKILLS

- Typescript
- Javascript
- Python
- Kotlin
- C#
- SQL
- Raspberry Pi
- Arduino
- Linux

ACTIVITIES/AWARDS

Student Undergraduate Research Fund | Spring 2020 – Fall 2020
"Enabling Machine Learning in Arduino-Based Embedded Systems Using Data Preprocessing" Funding to research algorithm-based efficiency improvements to machine learning on embedded systems

UCA 2021 Outstanding Student Award
UCA Department of Computer Science faculty selected me as the sole Computer Engineering recipient

UCA Computer Science Club – Treasurer (Fall 2019 – Fall 2020)
Vice President (Fall 2020 – Spring 2021)