

Samuel Munro

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Education: 2019 - 2023
Higher Education, ROSE-HULMAN INSTITUTE OF TECHNOLOGY

- Bachelor of Science, Computer Science (CS) – **3.8 GPA**
- Gained leadership experience as a member of the Air Force ROTC Program
- Managed senior design project that integrated smart-speaker systems with Amazon Web Services (AWS) and a Flutter mobile application

Related Courses: Blockchain, Database Systems, Natural Language Processing, Data Structures and Algorithms, Discrete Math, Linear Algebra, Software Requirements Engineering, Computer Architecture, Operating Systems, Computation Theory



GitHub Profile

MAY 2022 – PRESENT

Software Engineer, VIGILIFE INC, DAYTON OH

- Developed various frontend features using Flutter App Development, including indoor proximity tracking with iBeacon
- Managed the creation of a native Garmin OS application as a partner product
- Primarily responsible for off-the-shelf Bluetooth sensor integrations and development of real-time data and alert algorithms for a mobile application
- Piloted a backend notification service using Python and AWS Lambda
- Led development of Garmin Connect API integration to backend and frontend systems, including AWS Lambda, CloudFormation, Timestream, S3, and DynamoDB
- Gained valuable business development experience and interacted heavily with clients and partners

SUMMER 2021

Data Engineer Intern, APTIMA INC, DAYTON OH

- Created data-visualization tools for large sets of non-relational data
- Designed creative solutions that solved drawbacks of legacy software such as relating data and multi-index sorting using Kibana, Elasticsearch, and Tableau
- Stress tested and led preliminary development in new frameworks for possible use in production software

SUMMER 2020

Software Engineer Intern, APTIMA INC, DAYTON OH

- Developed client-side applications for contracted software development projects
- Created a Python-based simulation as a Phase 1 prototype
- Worked with custom hardware prototypes and a JavaScript frontend

Activities and Community Service:

Notable Projects:

- Designed and implemented a complete custom assembly language architecture and microprocessor
- Custom Scheme Language Interpreter
- Natural Language Processing TensorFlow model to predict MPAA movie ratings using IMDb Synopses
- Personal projects in Java, including implementations of custom ML algorithms

FIRST Volunteer: Served as an event volunteer in various positions