Luke McGovern

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EDUCATION

Major: Bachelor of Science in Computer Science   Dec 2023

Minor: Japanese Language (Honors Society JNHS-CC)

College of Engineering and Mathematical Sciences

University of Vermont, *Burlington, VT*

LANGUAGES & SKILLS

Languages

- JavaScript | TypeScript | React | Python | C | C++ | Swift | HTML | CSS | SQL | R

Skills

- Full-Stack Dev | ROS Robotics | Linux CLI | Git | IOS Dev | PC Building

WORK EXPERIENCE

Tech Consultant, Donahue & Associates | Burlington, VT   May 2023 - Aug 2023

- Manage website and help implement new tech endeavors
- Teach realtors how to get aerial shots of properties with a drone
- Set up computer equipment when moving office spaces

Construction, Bordeaux Construction | Burlington, VT   2020 - Present

- Renovate commercial and residential properties
- Assist contractor with full apartment renovations at each stage of the process
- Build planning and communication skills dealing with potentially dangerous environments

PROJECTS

Autonomous Drone Navigation   Jan 2024 - Apr 2024

- Programmed autonomous navigation software for a drone in a virtual environment
- The drone analyzes its sensor data, and maneuvers through a 3D maze
- Established keen understanding of robotics system & software design
  GitHub Link: github.com/McGovern7/ardupilot-nav-scripts

Personal Portfolio & Fullstack Web App   Sep 2024 - Jan 2025

- Built my personal web portfolio, containing my first full-stack app
- Acquired fullstack development techniques, crucial for a modern web developer
- App is secure, modular, scalable, and efficient
- Website contains additional information about my coding journey

RELEVANT COMPUTER COURSES

Web App Development

Develop an IOS app which streamlines flight scheduling between pilots. Uses
Apple's AirTag feature. 3 member semester long project.

Software Engineering

Using Agile Development in a group of 4, code a simulated monopoly game using PyGame.
Sharing code through GitLab for this semester-long project.

Data privacy

Solo Project-based Learning: Adding privacy mechanisms to create secure and accurate coordinate data. Plot data on a world map with GeoPandas.

Cybersecurity Principles

Infiltrate my professor's (fake) online bank using cryptographic hashing to secure computer networks. Newfound understanding of network threat vectors allows me to build more secure software.