Liam McFadden

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Personal Website: liammcfadden.github.io

GitHub: LiamMcFadden

Education

- **Virginia Polytechnic Institute and State University**
  - Junior in the Computer Science Program
  - Expected Graduation – Winter 2022
- **Classwork**: Data Structures, Databases, Algorithm Design and Analysis, Human Computer Interaction Design, Computer Organization
- **Cumulative GPA**: 3.14
- **Department GPA**: 3.47

Skills/Experience

- C, Java, Python, HTML, CSS, SQL, MATLAB, Command Line, Git, Leadership, Motivation, Teamwork

Honors & Awards

- 4-Year National Army ROTC Scholarship Awardee
- Boys State Selectee; elected Register of Deeds - Summer 2017
- Emerging Leader Scholarship Awardee

Clubs and Extracurricular Activities

- Virginia Tech Corps of Cadets
  - Served as Fire Team Leader and Athletics NCO
- Army ROTC
  - Served as Fire Team Leader and Squad Leader
- VTCC Cyber Club
- Intramural Basketball

Projects

- **Rocket League Self Driving Car:**
  - Using Python with OpenCV, this program can identify and track the ball from the game Rocket League.
  - This is a work in progress, so there is no autonomous driving yet, however I plan on generating a data set of frames with correlating key presses to train a model using a convolutional neural network.
- **Personal Website:**
  - Website made with basic HTML, CSS, and JS to showcase skills and other projects (link at top).

Community Service

- Corps of Cadets Volunteer Service Projects
  - 25+ hours of community service throughout the Blacksburg, VA area
- VA Hospital Volunteer 2017 to 2018
- Army Family Readiness Group Volunteer 2014 to Present
  - 180+ hours supporting events for Army family programs
- American Legion Volunteer – 2014 to 2015