Liam McFadden

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EDUCATION

Virginia Tech
Expected Graduation: December 2022
Major: Computer Science
Minor: Leadership and Service

TECHNICAL SKILLS

Programming Languages
Python, C, Shell, Java, JavaScript, TypeScript
MATLAB

Skills / Software
Git, GNU/Linux, OOP, Command Line, NodeJS

AWARDS

Four Year Army ROTC Scholarship
Full tuition scholarship and monthly stipend in support of Army Officer recruitment.

Emerging Leader Scholarship
Awarded to members of the Virginia Tech Corps of Cadets who exhibit academic and leadership excellence.

PROJECTS / COURSE WORK

Self-Driving Car in Rocket League
Used Python, OpenCV, and the Win32API to successfully identify and track the ball in the game rocket league. Currently, the car will crudely navigate towards the ball.

Custom Shell Implemented in C
Project for Systems class. Featured pipes, I/O redirection, exclusive terminal access, and full job control.

Personal Website
Simple website written in HTML, CSS, and JS to exhibit my resume and personal projects.

WORK EXPERIENCE

Army Cyber Institute at West Point, NY
Four Week Internship Program
West Point, NY – July 2021 to August 2021
- Ported large MATLAB project to Python3.
- Developed tools to facilitate the porting process.
- Designed and implemented a tool for the creation of configuration (.ini) files using Tkinter.

Vector Rideshare
Internship Program with Ridesharing Startup
Remote – April 2020 to Present
- Worked on backend of Dashboard for tracking Covid status among Vector Rideshare (VR) customers in NodeJS.
- Worked on frontend/backend of a song guessing game to be integrated into the app in TypeScript and NodeJS.
- Led a sub-team of three other developers and helped to teach them basic skills such as Git and the command line.

EXTRACURRICULARS

Virginia Tech Corps of Cadets (VTCC)
Four-year military style leadership program.
- Squad Leader – In charge of about 10 other cadets.
- Athletics NCO – Responsible for organizing company athletics events as well as coordinating with other companies.

Army ROTC
Program to develop future Army officers
- Squad Leader – In charge of the development and accountability of 11 other cadets.

VTCC Cyber Club
Cyber Club / CTF team for the VTCC
- Helped teach new members basics of Linux and the command line.