RYAN LEYHE

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EDUCATION

University of Virginia - College of Arts & Sciences   Charlottesville, VA

Pursuing a B.A. in Economics and a B.A. in Computer Science   Class of 2026

- Cumulative GPA: 3.53
- Relevant coursework: Computer Systems & Organization, Data Structures & Algorithms, Software Development
- Activities and societies: Google Developer Student Club, Portico Impact Fund, MARS

EXPERIENCE

Software Development Intern - DealCompass

- Incoming Fall 2024

Developer - Code for Charlottesville

June 2024 - Present

- Automated creation and customization of Google Form with embedded Google Maps.
- Developed a script to retrieve and manage form responses in Google Sheets with input validation.
- Automated data collection with scheduled scripts, integrating Google Forms and Google Sheets.

Intern - Naval Sea Systems Command (NAVSEA)

Clearance: Secret

June 2023 - August 2023

- Collaborated with the ACIO and regularly delivered insights and reports using Power BI dashboards during weekly meetings, showcasing HR and financial data transformations.
- Leveraged Power BI for data analytics, transforming data into actionable insights and creating dashboards.
- Designed and implemented Power Apps solutions to consolidate, filter, search, and edit data.

Member - Mechatronics and Robotics Society (MARS)

August 2023 - Present

- Led project in the programming subteam to use Docker on NVIDIA Jetson, containerizing versions of custom OS.
- Orchestrated Docker container management and introduced a GitHub workflow for automated image deployment.
- Implemented LiDAR-based SLAM algorithm to improve localization accuracy of the robot.

PROJECTS (Check out this project below and more on my website.)

Travel Rewards Application with MERN Stack

- Developed a web app using React and Tailwind CSS for the frontend. Created a robust RESTful API with Node.js, Express.js, and MongoDB to handle millions of data points efficiently on the backend. Deployed on AWS EC2 using Docker for continuous deployment. The application calculates the required spending on a user's chosen travel rewards card to earn enough bonus miles for their planned travel throughout the year.

SKILLS

Python | Java | C/C++ | HTML | CSS | Frontend: React, JavaScript, Tailwind CSS | Backend: Express.js, Node.js, Mongoose & MongoDB | AWS EC2 | LaTeX | | Docker | Git/GitHub | CI/CD | Embedded systems | JUnit testing | Power BI |