Walker Todd
Harrisonburg, Virginia
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EDUCATION

James Madison University, Harrisonburg, VA   **Expected Graduation: May 2025**
Bachelor of Computer Science   **Cumulative GPA: 3.15**
Minor*: Robotics**

SKILLS

- **Python, Java, ROS2, Docker, Javascript, TypeScript, HTML, SQL, C, C++ GitHub, GitLab, Rust, Haskell, Ruby**

EXPERIENCE

James Madison University, Harrisonburg, Virginia
Undergraduate Researcher – Autonomous Golf Cart Project
May 2024 – August 2024

- **Collaborated with a multidisciplinary team to develop and test an autonomous golf cart (JACart 2), focusing on sensor integration and ROS2-based navigation**
- **Implemented a UI front and backend system and also consolidated the project in Docker**
- **Conducted extensive testing and data analysis to refine the cart's autonomous functions, resulting in a successful demonstration**

Walmart, Waynesboro, Virginia
Stocking Associate
May 2021 – Present

- **Collaborated with a team to efficiently stock and organize merchandise**
- **Assisted customers with locating products, enhancing customer satisfaction**
- **Managed inventory counts and restocked shelves, ensuring accurate stock levels and minimizing overstock**

Projects

Autonomous Golf Cart Project - JMU, GMU   *January 2024 - August 2024*
- **Converted the ROS1 framework to a ROS2 framework for a fully autonomous golf cart, "JACart 2". The project utilized the Robot Operating System 2 (ROS2) framework for real-time processing and control and lidar sensors for environment perception.**

Simply Sports - Sports Website - JMU   *August 2024 - Present*
- **Currently developing a web application that pulls live sports scores and upcoming game times from external APIs, presenting the data in a simple and intuitive interface, with plans to integrate additional features like team filtering and notifications.**

CAMPUS INVOLVEMENT

Young Life, **James Madison University**   *August 2021 - Present*

*Competitive Programming Club***, James Madison University**   *December 2022 - Present*

*Student Duke Club***, James Madison University**   *December 2023 - Present*

Robotics Major/Minor Ambassador   *August 2024 - Present*