Ryan Yocum

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OBJECTIVE

A software engineering student looking for a future opportunities in a challenging environment where I can utilize my skills and grow my knowledge in a real world environment.

EDUCATION

- **Rochester Institute of Technology** — Rochester, NY
  BS/MS Software Engineering; GPA: 3.2 — *2021 - 2027*
- **Relevant Coursework**: SWEN-250: C Programming, SWEN-262 - Design Patterns, SWEN-340 - Embedded Programming, SWEN-344 - Web Engineering

SKILLS

- **Languages**: Go, Python, TypeScript, Java, C, C++, JavaScript, Perl, HTML, CSS
- **Technologies and Frameworks**: Git, Linux, Docker, GitHub Actions, Jenkins CI, NodeJS, ESP-IDF, Arduino, NextJS, Angular, SvelteKit, React, OracleDB, PostgreSQL, MySQL

PROJECTS

- **Talos RIT** github.com/talos-rit
  Rochester Institute of Technology
  - This project is aimed at restoring and making use of old classroom Scorbot robots.
  - Led the Linux driver development for connecting to motor control hardware over I2C in C++.

- **Defect Passdown Automation**
  GlobalFoundries
  - Created a system to automatically create slides for shift passdown meetings.
  - Uses Angular and Go to be able to quickly generate slides.
  - All generation is done on the frontend, as to prevent server load spikes. This allows around 100 slides to be generated in less than 30 seconds.

- **StraightFlush**
  Rochester Institute of Technology
  - Led the frontend development building an online web store using Spring Boot and Angular.
  - Created an enhancement feature to allow uploading, server side saving, and loading of custom images. This allowed for unlimited images in a carousel format.

EXPERIENCE

- **GlobalFoundries** — Malta, NY
  Process Engineering Intern — *May 2023 - August 2023, May 2024 - August 2024, January 2025 - August 2025*
  - Developed a new system allowing easy tracking of new products.
  - Developed a system to automate slide generation of defect issues for efficient passdown
  - Developed a viewer to help engineers understand CFM (Contamination Free Manufacturing) defect data.
  - This viewer allowed external modules to view CFM binning configurations. This makes the data more readable, as otherwise engineers are looking at an arbitrary number
  - Wrote a Jenkins CI build to allow for easy updating and deployment.
  - Aided my team in daily tasks, including creating hotfixes, and linux deployment.

- **Rochester Institute of Technology** — Rochester, NY
  Course Assistant — *January 2023 – May 2023*
  - Assisted professor in grading, and ran sessions to help students in the Intro to Software Engineering course.
  - Created and hosted an interactive Angular workshop to help students better understand the framework.

ACTIVITIES/AWARDS

- **President -** RIT Outing Club
- **Eagle Scout**