Ryan Marina

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I'm a focused, intelligent student with a passion for computers, information security, reproducible systems, and self-hosted, federated software. I'm especially interested in securing the intersection of information technology and physical control systems.

Work Experience

Fellowship Bible Church   Franklin, Tennessee
Camera Operator, Color Corrector   June 2021 - Present

- Helped produce video of sermons and worship by operating cameras in a variety of situations
- Performed live color correction of outgoing video to ensure visual clarity and color-space balance
- Worked alongside creative and technical professionals on a volunteer basis

Williamson County 4-H Summer STEM Internship   Greater Middle Tennessee
Demographic Compliance Coordinator, Instructor   August 2023 - Present

- Provided education on STEM concepts to over 1000 children in the Greater Middle Tennessee area
- Wrote a suite of software to analyze demographic data collected on the ground to ensure compliance with nondiscrimination legislation

Williamson County Soccer Association   Franklin, Tennessee
Sports Officiator   Spring 2022 - Fall 2022 Season

- Enforced rules and communicated effectively with players, coaches, and other officiators
- Mediated and managed conflict within the context of the game

Academic Distinctions

Honor Roll   Franklin High School
4.3 GPA

Accepted into the Pre-IB Diploma Program

Invited to the National Society of High School Scholars

Extrascholastic Awards and Achievements

Honor Ensembles

- Auditioned and selected to the MTSBOA 7-8 Gold Band twice and selected to the MTSBOA 9-10 Gold Band once
- Auditioned and selected to the Vanderbilt Blair School of Music Repertory Orchestra

The Franklin Band

- Was awarded the "Rising Tide" award at the conclusion of the 2023-2024 season
- Selected as the co-lead of the Librarian team
- Performed on live, national television and marched in the New York St. Patrick's Day parade

Model United Nations/Youth in Government

- Advanced 7 pieces of legislation to General Assembly and Senate, won a combined eight awards
- Was part of a team that presented an essential piece of legislation for the Governor's agenda
- Elected to serve as a Sophomore Parliamentarian within my delegation, a position typically held by Juniors

Selected Projects

dot_testing

- A comprehensive NixOS configuration containing a fully-functional Linux-based desktop setup
- Configures six different machines, including a phone

beepboop.systems

- A personal website, self-hosted Gitea, password manager, and WebDAV server, in addition to various projects hosted there

desmos-computer

- An ISA, domain-specific language, assembler, assembly language, and programmatic graph definition generator for the Desmos graphing calculator