Sean Rettig

srettig@purdue.edu | linkedin.com/in/sean-re/ | github.com/izatwin

Education

Purdue University West Lafayette, IN
Bachelor of Science in Computer Science, Minor in Mathematics *Aug. 2021 – May 2025*

- Dean's List and Semester Honors every semester
- 3.73 GPA

Relevant Coursework

- OO Programming
- Programming in C
- Computer Architecture
- Systems Programming
- Competitive Programming
- Elem Linear Algebra
- Foundations Analysis
- Numerical Methods
- Data Mining & ML
- Data Structures & Algorithms

Experience

Market Operations Data Temp May 2023 – Present
Midcontinent Independent System Operator (MISO) *Carmel, IN*

- Automated studying of flowgates to decrease steps to study by 66%
- Implemented multiprocessing to increase throughput of studies by a factor of 4
- Centralized execution of studies to decrease worst case runtime by 95%
- Standardized results into PostgreSQL database

Software Engineer Intern Dec. 2021 – May 2023
Purdue University *West Lafayette, IN*

- Compiling information on our internal application to improve incomplete documentation
- Updated out-of-date .Net built internal application to improve user experience
- Implement user-requested features on web and desktop applications
- Packaged over 50 applications using Microsoft Endpoint Manager to simplify installation to over 5,000 machines
- Developed installation scripts connecting Endpoint Manager to a custom script for capturing logs and other information
- Captured installation of 20 applications to be used with Apps Anywhere

Banquet Server May 2019 – July 2019
White Lodging *West Lafayette, IN*

- Assist Banquet Captain in setting up, servicing, and tearing down banquet events, managing 3-20 associates per event, and operating 150+ events with 30-300 guests.

Projects

Home Lab | *Proxmox Hypervisor, Linux, Docker, Ansible, Nginx* June 2020 – Present

- Established 3 server cluster to provide a virtualization platform using Proxmox Virtual Environment.
- Instituted a game server, media server, and other selfhosted services using Linux Virtual Machines and Docker.
- Developed Ansible Playbooks to automate configuration of Debian cloud images.
- Configured Nginx reverse proxy to provide external access for selfhosted applications with SSL certificates.

Cybersecurity Club | *Linux, Windows, Networking* May 2018 – May 2020

- Competed in the AFA's Cyberpatriot competition 3 times. Gold Tier first year. Platinum Tier second and third year.
- Built the club from ground up providing leadership and creating materials for new members.

Technical Skills

Languages: Python, C/C++, Java, Bash, C#
Tools/Technologies: Git, Linux, Docker, Docker Compose, Pandas, VS Code, Visual Studio, IntelliJ, Jira, LaTeX