

Sean Rettig

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EDUCATION

Purdue University

Bachelor of Science in Computer Science, Minor in Mathematics

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

West Lafayette, IN

Aug. 2021 – May 2025

RELEVANT COURSEWORK

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

EXPERIENCE

Market Operations Data Temp

Midcontinent Independent System Operator (MISO)

May 2023 – Present

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

Purdue University

Dec. 2021 – May 2023

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- Updated out-of-date .Net built internal application to improve user experience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

White Lodging

May 2019 – July 2019

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