

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 | • Foundations Analysis | • Data Structures & |
| • Computer Architecture | Programming | • Numerical Methods | Algorithms |

EXPERIENCE

Market Operations Intern

Midcontinent Independent System Operator (MISO)

May 2023 – Present

Carmel, IN

- Automated Power System flowgate analysis to decrease required steps by 66%
- Implemented multiprocessing to increase throughput of studies by a factor of four
- 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

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- Updated out-of-date .NET application to improve user experience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

Banquet Server

White Lodging

June 2020 – March 2022

West Lafayette, IN

- Assisted Banquet Captain in setting up, servicing, and tearing down banquet events
- Operated 150+ events with 3-20 associates and 30-300 guests

PROJECTS

Home Lab | *Proxmox Hypervisor, Linux, Docker, Ansible, Nginx*

June 2020 – Present

- Established three server cluster to provide a virtualization platform using Proxmox Virtual Environment
- Instituted a game server, media server, and other self-hosted 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 self-hosted applications with SSL certificates

Cybersecurity Club | *Linux, Windows, Computer Networking*

May 2018 – May 2020

- Competed in the AFA's Cyberpatriot competition. Gold Tier first year. Platinum Tier second and third year
- Co-founded the club, leading 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