Sean Rettig

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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
- 3.73/4.00 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 Intern May 2023 – Present
Midcontinent Independent System Operator (MISO) *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 Dec. 2021 – May 2023
Purdue University *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- Updated out-of-date .NET application to improve user experience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 June 2020 – March 2022
White Lodging *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