

# Blizzard Finnegan

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Systems administrator specialising in containerisation, network management, and IoT systems design and implementation.

## SKILLS

<b>Tools and Languages</b>	Rust, C/C++, VHDL, Shell Scripting, Powershell, Kotlin
<b>Software</b>	L <sup>A</sup> T <sub>E</sub> X, git, Linux, Docker, Ansible, systemd
<b>Hardware</b>	Server, Laptop and Desktop Maintenance; PoE, Serial UART, Zigbee, Z-Wave, BlueTooth/BLE

## PROJECTS

### Freelance Server Management Aug. 2022 — Current

*Management of an array of services, including public presence and documentation*

- Ensures integration into pre-existing workflows with minimal disruption or downtime
- Management of Docker containers, Samba fileshare, hardware and software RAID arrays, and network stack
- Budget and acquire new hardware according to needs
- Implements user-friendly, intuitive tools with minimal learning curves

### Custom Cookbook Implementation and Hosting Jan. 2025 — Current

*Publicly available app and web server accessible at <https://cookbook.blizzard.systems>*

- Kotlin Multiplatform development experience
- Manual and custom Dockerfile configuration
- CI/CD configuration using Woodpecker

### Self-Hosted Home Automation Feb. 2023 — Current

*Implement automation for lighting, heating and cooling based on collected information*

- Designed and constructed based off verbal specifications from the end users
- Control both proprietary devices and custom personal devices based on the ESP32 and Raspberry Pi platforms
- Ensure easy control of all entailed through an easy to understand interface

### Advent of Code Dec. 2021 — Current

*Series of coding challenges hosted online; written in C++, Rust, and Java*

- On the fly interpretation of text-based prompts for complex problem solving
- Intentional design for light use of hardware resources
- Extensive plaintext file parsing

## EDUCATION

### Rochester Institute of Technology Aug. 2018 — Dec. 2024

*B.S. in Computer Engineering Technology; GPA = 3.2/4.0*

## WORK EXPERIENCE

### Research and Delopment Intern Jan. 2023 — Aug. 2023

*Baxter International*

*Auburn, NY*

- Overhauled multiple automated test fixtures' software for ease of use
- Provided general assistance with the use of embedded Linux systems
- Began the process of porting proprietary communication protocol to Linux

### Assistant Systems Administrator June 2022 — Dec. 2022

*RIT, Information & Technology Services*

*Henrietta, NY*

- Maintained and repaired a wide range of client devices
- Regularly interfaced with customers for identifying and resolving issues
- Maintained compatibility and security updates across several platforms