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# Blizzard Finnegan

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Seeking co-op in firmware and software development. Available Jan. - June 2023

## SKILLS

|                            |  |
|----------------------------|--|
| <b>Tools and Languages</b> | Russt, C/C++, Java, VHDL, ZSH/BASH   |
| <b>Software</b>            | L <sup>A</sup> T <sub>E</sub> X, git, Linux, ModelSim, MultiSim, Altera Quartus, MATLAB, Microsoft Excel |
| <b>Hardware</b>            | Soldering Iron, Oscilloscope, Digital multimeter, FPGAs, Signal/function generator                       |

## 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

### Advent of Code 2021 Dec. 2021 - Current

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

- Manual implementation of Dijkstra's algorithm
- Plaintext file parsing
- Extensive Stack, Queue, and ArrayList Use

### Binary Search Tree Feb. 2022

*Implement a Binary Search Tree in Java*

- Built based off of a given UML diagram
- Includes `infixTraversal()`, `binarySearch()`
- Easily sortable using `Collections.sort()`

### Encryption Key Generator March 2020

*VHDL design to create and transmit an encryption key, given an 8-bit value*

- Using Altera Cyclone V FPGA
- Extensive use of Quartus and Modelsim

## EDUCATION

### Rochester Institute of Technology Aug. 2018 - Aug. 2024

*B.S. in Computer Engineering Technology; GPA = 3.37/4.00*

## 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