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Rochester, New York

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Blizzard Finnegan

Computer Engineering Technology Student

GitHub: BlizzardFinnegan

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

SKILLS

Tools and Languages	Java, VHDL, C/C++, ZSH/BASH
Software	LaTeX, git, MATLAB, Linux, ModelSim, MultiSim, Altera Quartus, Microsoft Excel
Hardware	Soldering Iron, Oscilloscope, Digital multimeter, FPGAs, Signal/function generator, Arduino

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

Laboratory Technician (Summer Positon)

June 2017 — Aug. 2018

MACOM Technology Solutions

Horseheads, NY

- Operated scanning laser microscope measurement system to assess failures and improve yield
- Compiled acquired data, and generated visualizations using Excel for ease of understanding
- Established and assisted in writing standard operating procedure for the scanning laser microscope

Student Worker

Sept. 2020 — Jan. 2021, Sept. 2021 — Present

Salsarita's Mexican Grill

Henrietta, NY

- Maintained safe work environment for staff and customers
- Regularly interfaced with customers for all parts of the order-handling process
- Managed inventory according to First In, First Out procedures