

# Gentman Tan

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## Summary of Qualifications

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### • Computer Science

- Proficient with Python, C, Java, and GNU/Linux
- Familiar with hash tables, arraylists and linked list data structures as well as object oriented design
- Also able to tackle computer systems engineering problems resulting in heightened productivity

## Education

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- Florida International University Bachelors of Arts in CS Expected Graduation Spring 2023
- Miami Dade College Associates in Arts Degree Graduated Spring 2020

## Technical Skills

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**Programming** – C, Java, Python, git

**I.T.** – Docker, Kubernetes, SELinux, Proxmox VE, KVM, pfSense, OpenVPN, WireGuard

**Internet Of Things** – Home Assistant, MQTT, Z-Wave, Zigbee

## Projects

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### • Space Calamity: Fortune Favors the Bold! 2021 to Current

- Collaboration on video game project utilizing the Git Version Control
- Coded front end GUI using tkinter and python tls socket implementation demonstrating knowledge of the Git collaborative workflow, UI concepts and cryptography

### • Pathfinding Project December 2020

- Utilized the BFS algorithm to find the smallest number of steps taken across a graph with obstacles
- Successfully applied Recursion and Arraylist parsing techniques

## Activites

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### • Home Lab Mid 2019 to Current

- Increased knowledge of systems administration concepts via experimentation and deployment of industry software such as pfSense, Proxmox and OpenVPN in an at-home laboratory setting, applying the topics of policy-based routing, subnetting and cluster cloud services deployment

### • TERRA Engineering Club 2017-2018

- Developed methodologies to solve systems engineering problems by prototyping — Involving the programming of micro-controllers, handling I2C, SPI and serial modes of communication, and parsing raw sensor data