

Kyre Shamwell

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EDUCATION

North Carolina Agricultural and Technical State University

Major: Computer Science

GPA: 3.1 / 4.0

Greensboro, NC

May 2025

SKILLS

Languages: Python, C++, Java, HTML, CSS, JavaScript, Json

OS: Linux, MacOS, Windows

Tools: Git/GitHub, Vs Code

PROFESSIONAL EXPERIENCE

Software Engineer

Cedar Rapids, IA

Collins Aerospace Internship; Avionics Department

Jun. 2024 – Aug. 2024

- Migrated legacy Python 2 code to Python 3, modified tests, and implemented HTML test output, enabling GUI-independent test runs.
- Converted GUI-based tests to Python 3, allowing command-line execution and logging results to a text file.
- Created an HTML interface with a Python localhost server to format and display test outputs using JavaScript.
- Tested updated Python 3 scripts on Airborne Flight Display (AFD) and Fomax devices, ensuring functionality and reliability.
- Used a Linux server to commit Python 3 modifications to GitLab and documented changes in AsciiDoc.

Digital Technology

Remote, NC

Collins Aerospace Co-op; Cloud and Automation Department

Jan. 2023 – Dec. 2023

- Design, coordinate, implement, and support collaboration solutions for **71,000 end-users**.
- Work directly with **15+ end-users daily** to define and resolve their collaboration solution needs.
- Migrated **1,000 file shares** to Varonis, a new data security platform.
- Work directly with **10+ end-users daily** to define and resolve their data security solution needs.

PROJECTS

Personal Project:

Portfolio Website

- Designed and implemented a personal portfolio website using HTML and CSS.
- Connected the website to a GitHub home repository to showcase coding skills.
- Integrated past coding projects from multiple GitHub repositories.
- Highlighted proficiency in various programming languages and frameworks.
- Portfolio available at kyremichael.github.io.

Class Project:

Raspberry Pi Web Server and Networking Project

- Installed and configured an operating system on a Raspberry Pi 4 to host a web server application.
- Developed a functional website using HTML, CSS, and JavaScript to meet project requirements.
- Set up and configured a secure Wi-Fi router connected to the Raspberry Pi, ensuring a security key strength of 128 bits or higher.
- Enabled port forwarding to allow external access to the web server hosted on the Raspberry Pi.

Class Project:

Farm App

- Developed a terminal-based farm animal selection application using Python, leveraging object-oriented programming concepts like inheritance.
- Designed interactive menus to allow users to select animals by type (male or female), age (adult or child), and quantity.
- Implemented class hierarchies to streamline the management of animal attributes, ensuring efficient code structure and scalability.
- Completed the project independently, utilizing VS Code for coding and debugging.

ACHIEVEMENTS/AWARDS

Dean's List; Executive Leadership Council Scholar; TMCF & RTX Scholarship x Internship; TMCF Lowe's Immersion Program in Charlotte, Nc; Member, Association of Computer Machinery Organization (ACM); Member, National Society of Black Engineers (NSBE); Leader, Organizing/ Packing Party for the Homeless