William Morgan

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Experience

AUTOMATION INTERN | INDUSTRIAL AUTOMATED SYSTEMS INC.   JUNE 2022 - AUGUST 2022

- Contributed to projects that were used in the automation of HVAC systems at industrial manufacturing facilities
- Collaborated with engineers on-site to implement software upgrades to microcontrollers using proprietary software
- On-site experience with team leaders and site managers to implement systems
- Used custom programs to initialize network connections between devices on the local network for industrial facilities

RESIDENT MENTOR | NCSU HOUSING   AUGUST 2022 – PRESENT

- Mentored first year engineering students in the NCSU Engineering Village
- Provided academic support to residents and provided them with tools needed for success
- Operated the engineering design studio and technology inside, such as power tools and 3D printers

OPE SALES AND SERVICE REP. | HUDSON'S HARDWARE   MARCH 2018 – JUNE 2021

- Communicated with customers regarding repairs to ensure proper service was provided

Education

BACHELOR OF SCIENCE | NORTH CAROLINA STATE UNIVERSITY   AUGUST 2021 – MAY 2025

- Major: Computer Science | Minor: Industrial and Systems Engineering   GPA: 4.0
- Competitive Programming Club | App Development Club | Quantum Computing Club

HIGH SCHOOL EDUCATION | CLAYTON HIGH SCHOOL   AUGUST 2017 – JUNE 2021

- Marching band, National Honors Society, dual enrollment   GPA: 4.5

Skills & Projects

TECHNICAL SKILLS

- **Programming languages**: Java, Python, HTML, CSS, SQL, C, JavaScript | **Operating systems**: Windows, MacOS, Linux
- Microsoft Office Suite, RDMS software, Integrated Development Environments, Git Workflows, OOP Concepts

PROJECTS

- <u>**Personal website:**</u> created a personal website in HTML and CSS
- <u>**Poker Program**</u>: created a fully functional 5 cards draw poker game with a GUI in Java using different libraries given with the Java Development Kit and ones that were custom developed
- <u>**State Demographics:**</u> created a program that takes in state demographic data from an API and provides visualization of the data and the ability to compare each state in America based on the input data
    - Used Python libraries such as MatPlotLib to visualize and compare different sets of data
- <u>**Sudoku Solver:**</u> created a simple program using a recursive algorithm to solve sudoku puzzles input from the CLI in Java
- <u>**Connect Four:**</u> created a connect four game in Java with additional game modes, such as the ability to play with a larger game board, requiring more than four chips to be placed in a row to win a game

Achievements

- **Rank of Eagle Scout | November 2018:** leading Scouts on a service-oriented project for a non-profit organization
    - 10 years of Scouting and several months of planning and organizing went into the project for this award
    - Worked with adult committees and other scouts to ensure smooth implementation and efficient use of resources
- **Boy Scout Senior Patrol leader | January 2018 – November 2018:** led our troop of scouts in the weekly meetings and planned multiple camping trips for the scouts to advance in their abilities
- **National Youth Leadership Training:** attended a BSA sponsored leadership training
- **Quantum Computing Club Officer:** helped plan weekly meetings and also contributed to the planning of a quantum computing hackathon sponsored by IBM