John Butterfield

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EDUCATION

North Carolina State University, College of Engineering   **Expected Graduation: May, 2025**
Bachelors of Science, Computer Science   *Raleigh, NC*

- **GPA: 3.8/4.0**
- **Dean's List:** 2021 Fall, 2022 Spring, 2022 Fall, and 2023 Fall Semesters
- **Relevant Coursework:** OOD in Java, Software Engineering in C, Data Structures and Algorithms, Linear Programming, Discrete Math, Operating Systems, Software Engineering in Python

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C, HTML, CSS, JavaScript/React, R, Julia
- **Developer Tools:** Visual Studio Code, Eclipse IDE, GitHub, Git, PuTTY, Linux

PROGRAMMING PROJECTS

Portfolio Website (React / JavaScript / HTML / CSS)
- Website implemented using React, JavaScript, HTML, and CSS, used to showcase my portfolio.

Web Scraper (Python)
- A web scraper implemented in python, used to extract data from websites.

Student Registration System (Java)
- Built with Java, it is a fully fledged class registration system with different tools available to different types of users (Registrar, Staff, Students).

Memory Encryption and Decryption (C)
- Implemented the LUCIFER encryption algorithm in C, for secure handling of text/binary files.

Hash Map (C)
- Implemented a hashmap, reinforcing my understanding of abstract data structures and how to implement them in low level languages like C.

Minesweeper (Java)
- Clone of Minesweeper, featuring a self-designed board generator and recursive algorithms to detect bombs.

Machine Learning (Python)
- A basic machine learning project that is able to classify consumer complaints based on some criteria.

NON-TECHNICAL EXPERIENCE

Community Service
- **Miracle League:** Help children with physical disabilities play baseball.
- **Cat Angels:** Filed paperwork and helped care for the cats at the Cat Angels rescue center.
- **Warehouse Project:** Served food to families, children, seniors, and individuals facing hunger in N.C.

Lowes Foods   **February 2019 - April 2021**
Cashier/Bagger
- Assisted customers with their purchases, answering questions and offering recommendations as needed

Capital Contracting   **May 2021 - August 2021 & May 2022 - August 2022**
Contractors Assistant
- Assisted in construction projects, including preparation, material handling, installation, and maintenance of job sites.