

Sean Canterbury

North Carolina | swcanterbury7@gmail.com | [Linkedin](#) | [Github](#) | Portfolio: seancanterbury.com

EDUCATION:

University of North Carolina at Charlotte (UNCC), Charlotte NC

May 2024

Bachelor of Science in Computer Science | Concentration: Software, Systems, and Networking | Minor: Mathematics

GPA: 3.5

Honors: Chancellor's List: Spring 2024, Fall 2023 | Dean's List: Spring 2023, Fall 2022, Fall 2020

SKILLS:

Languages: *Java, C, Python, C++, SQL, Javascript/Typescript, HTTP/CSS*

Technology: *Visual Studio Code, Github, MySQLWorkbench, Wireshark, FastAPI, Django, Flask, React, React-Native, Tensorflow*

MISC: *Agile, MacOS, Linux, Windows, Unix Bash Commands, Software Verification and Validation, dFMEA, Integration testing, CAPA Execution, Integration & Unit testing,*

EXPERIENCE:

Software Quality Engineer Intern: Gilero | Software Validation, Risk Analysis

Fall 2024

- Performed **validation and verification** of software used in the development and manufacturing of medical devices in accordance with IEC 62304 and ISO 14971
- Collaborated with multiple departments to collect and evaluate information about **User Requirements**, as well as perform risk analysis of various software.
- Utilized **integration and unit testing** to validate software tools of all types to validate functionality in the scope of Gilero's design and manufacturing ventures.
- Led execution of **CAPA** procedure regarding internal protocol that affects compliance requirements of a medical device.

PROJECTS:

NSA Project: OCRScribe | OCR, React-Native, Flask, Tensorflow, PostgreSQL

Spring 2024

- Collaborated closely with the **National Security Agency** on a project combining Python, JavaScript, AI, and machine learning to design a patented process using **Optical Character Recognition** to convert handwritten text to machine-readable text seamlessly.
- Operating in an **Agile environment**, I lead a team of students to ensure that objectives are met on time and efficiently. We held **weekly scrum meetings** with NSA representatives to evaluate the work done and implement outlines for the upcoming work, delegating tasks accordingly.
- Prioritizing **ease of use and functionality**, I implemented the OCRScribe functionality in a **mobile application** utilizing **React-Native** frontend and **Flask** backend. We successfully created a working design satisfying our easy-to-use requirements focusing on simplicity.

Personal Portfolio | ReactJS, Javascript, Git/Github, HTML/CSS

Spring 2024

- Developed a personal portfolio using **ReactJS** to highlight my professional skills and project experience.
- Implemented a **continuous integration solution** to allow for easy updates to the website making adding new projects simple.
- Managed **deployment** using Vercel on the domain seancanterbury.com for anyone to access and view my experience.

Online Ordering Website | Python, HTML/CSS, SQL

Fall 2023

- Led a team of students in a scrum environment to develop an API fit for a restaurant's online ordering system.
- Effective utilization of **Git** and **GitHub** for version control and collaborative development, enabling streamlined and efficient code management.
- Strong understanding and implementation of **FastAPI** enabling rapid development and easy integration of **CRUD** operations for versatile data management.