

SAMUEL GEORGE

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EDUCATION

Bachelor of Science in Computer Science, UNC Greensboro, NC | Expected Year of Completion: 2025

CAREER OBJECTIVE

Motivated third year student with strong foundation in software development, system analysis and team spirit, I am seeking internship opportunities to leverage my knowledge and technical skills to contribute effectively to any team and project.

PROJECTS & ACHIEVEMENTS

Python Project: AI Knowledge Representation and Reasoning in Biomedical Informatics

In this project, I applied principles of knowledge representation and reasoning to biomedical informatics, focusing on ontologies, propositional logic, probability, and the use of the `doid.owl` files in Python. I used the `Owlready2` Python library to work with the Human Disease Ontology(HDO) dataset, representing relationships and concepts in the biomedical domain. Additionally, I implemented propositional logic concepts to help me explore probability theory in relation to AI.

• *Python, python modules, doid.owl files, logic, and propositions*

Undergraduate Creativity and Research Expo Presentation: Advancing Alongside Artificial Intelligence

For my capstone project in the residential college program, I presented a thesis paper on Artificial Intelligence (AI) at the Spring 2023 Undergraduate Creativity and Research Expo. The project aimed to comprehend AI's emergence in the public sphere, emphasizing its logic-based thinking principles and clarifying key concepts such as machine learning and natural language processing for a general audience. By bridging the gap between AI and non-technical individuals, the presentation facilitated a comprehensive understanding of AI's multifaceted functionalities. Engaging with judges and attendees at the expo allowed me to showcase not only my depth of understanding but also my passion for AI within the computer science domain.

Software Engineered Application: Dyvert App

The DyVert is an App made for entertainment purposes. The point of this app is to help users organize and select what kind of entertainment they like, and what genres they usually enjoy. Users can interact with others on the app and choose to share certain shows, books, movies, etc.

• *HTML, CSS, Java, Spring Boot, API's, MySQL*

Java Quicksort Performance Analyzer

This project contains a Java program designed to implement the Quicksort algorithm for sorting arrays of random integers provided from a text file. The primary objectives of this assignment were to enhance Java programming skills, gain insights into Divide and conquer sorting algorithms, practice Javadoc documentation, and reinforce good programming techniques.

Java Breadth First Search Solver Application

- Java Skill Enhancement: Enhanced Java knowledge and skills while gaining an understanding of the BFS algorithm
- Implementation of BFS Traversal: Implemented BFS traversal in Java, showcasing proficiency in graph representation and traversal techniques
- Minimum Distance Calculation: Modified code to track minimum distances between vertices, utilizing additional data structures for efficient computation

General Assembly and C coding projects

- Diverse Range of Projects: My repository features a variety of projects highlighting skills in low-level programming, covering topics such as memory management, bitwise operations, and algorithmic optimizations
- Efficient Assembly Language Code: Demonstrated proficiency in writing optimized assembly language code for x86 architectures, showcasing coding practices and problem-solving techniques
- Integration of C Programming: Seamlessly integrated C programming into projects, illustrating the ability to bridge high-level and low-level languages to address complex computing challenges

RELEVANT COURSEWORK

• Artificial Intelligence • Software Engineering • Theory of Computation • Advanced Data Structures • CSC 362 System Programming

TECHNICAL SKILLS

Python, Java, JavaScript HTML, CSS, Assembly Language, Git and Github, Spring Boot, API's, C#, C++, and Microsoft Excel

CERTIFICATIONS

• Microsoft Excel, Microsoft Word, Microsoft PowerPoint, CPR & First Aid (American Red Cross) Certified

CAMPUS WORK EXPERIENCE AND LEADERSHIP

UNCG Outdoor Adventures Greensboro, NC (November 2021 - Present)

- Outdoor Adventures Supervisor, Belay Instructor, Competition Judge, Social Media Management

Residential College Program Graduate and Upper-Class Mentor (August 2021 - May 2023)

- Graduated from the Residential College Program, hosting community events and mentored other students