

Tyler Ramanata

980-475-3904 | tsramana@ncsu.edu | tramanata@gmail.com

EDUCATION

North Carolina State University
Bachelors in Computer Engineering
Honors and Scholars College
Overall GPA: 3.3

Anticipated graduation: May 2026

SKILLS

Software: AWS, Github, LabView, AutoCAD Inventor, Solidworks, Microsoft Office, KeyCAD
Programming: C++, Python, Go, Java, Javascript, SQL, C, HTML/CSS, LC-3
Other: Data Structures and Algorithms, ETL, Circuit Analysis, Circuit Construction, Machine Learning

PROFESSIONAL EXPERIENCE

Stratascale / Cybersecurity Software Engineer Intern / April 2024 - Present, Charlotte, NC

- Developing Python scripts using PySpark Dataframes to automate the process of retrieving data from AWS DynamoDB, ensuring efficient and accurate data access
- Designing and implementing an ETL (Extract, Transform, Load) process using AWS Glue to transition data from DynamoDB to a relational database with Python and SQL
- Integrating autonomous endpoint management into attack service management systems to improve security and streamline incident response processes using Python and Java

Techmor / Computer Engineer Intern / May 2023 - August 2023 , Cornelius, NC

- Utilized LabView software (C Program) to develop calibration tools in order to test functionality of Analog to CAN Bus, Analog to Digital, or multi-channel products
- Testing performance of Analog to CAN Bus product using oscilloscopes to check the gain and changes in electrical signals
- Debugged faulty electronic systems after failed calibration by using soldering tools to make adjustments to PCB boards
- Assisted in the development of PCB board using KeyCAD software in order to create programming modules to burn strain gauge programming into the boards or update dated boards for previous strain gauge products

PROJECTS

Chariot (iOS/Android Mobile Application) / November 2023 - Present

- Developing frontend UI using Node.js and React Native
- Utilizing AWS services such as DynamoDB, Lambda, S3, Amplify to connect backend and move data
- Creating Lambda functions using JavaScript and Python to parse data and write into database

Academic Programs

- Data Structures: Completed programs utilizing the following Data Structures in C++ (Branch Search Trees, Hashs, AVL Trees, Linked Lists)
- LC-3: Created programs using LC-3 assembly language to learn memory and stack storage

Senior Engineering Capstone Project / August 2021 - December 2021

- Designed a barbell and dumbbell cleaning device by following engineering design process
- Developed a 3D model using AutoCAD
- Built a working prototype with a 3D printer to help visualize and test product

CERTIFICATIONS

Data Structures and Algorithms: Deep Dive Using Java (In Progress)

- Current Focus: Data Structures and Algorithms Using Java | Expected Completion: July 2024

AWS Certified Cloud Practitioner (Currently Working Towards)

- Current Focus: Cloud Infrastructure, Cloud Computing | Expected Completion: August 2024

INVOLVEMENT

Pi Kappa Phi Fraternity / August 2023 - Present

- Class Vice President, August 2023 - November 2023
- Traditions Chairman, December 2023 - Present
- Standard Board Committee Representative, December 2023 - Present