Tyler Ramanata

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EDUCATION

North Carolina State University *Anticipated graduation: May 2026*
Bachelors in Computer Engineering / Minor in Business Administration
Honors and Scholars College
GPA: 3.4

SKILLS

Relevant Coursework: Data Structures and Algorithms, Embedded Systems, Discrete Math, Circuit Construction, Machine Learning
Programming: Java, Javascript, Python, C, HTML/CSS, C++, LC-3, Verilog
Technologies: LabView, AWS, AutoCAD Inventor, Solidworks, Microsoft Office, Blender, React, KeyCAD

PROFESSIONAL EXPERIENCE

Stratascale / Software Engineer Intern / May 2024 - August 2024 , Charlotte, NC

- Participated in a python-based development project with a 10+ software engineer team. This project focused on the creation and implementation of an ETL (Extract, Transform, Load) process using AWS services to transition to a more efficient and secure Relational Database for the security of Fortune 1000 assets impacting over 100000 users.
- Designed, developed, and implemented Machine Learning Recommendation System using Logistic Regression to assist analysts in their diagnosis of vulnerable systems for over 100 clients.
- Demonstrated expertise in Scrum project development methodologies through hands-on application. Accumulated skills in various technologies including AWS services S3, Lambdas, Glue, DynamoDB, Python, Apache Spark, Git, and Jira.

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

Smart Toy Car: WiFi-Controlled Embedded System / August 2024 - Present

- Developed a WiFi-controlled smart toy car from scratch using C++ and embedded systems. Implemented automated tasks such as navigation, obstacle avoidance, and remote control via a custom-built interface.

Ride Sharing Full-Stack Mobile Applications (iOS) / November 2023 - Present

- Customer facing mobile app for event rides developed with React Native and Python/DynamoDB back-end. Utilized AWS Amplify development tools to streamline data management and integration.

Binary Search Tree Implementation / January 2024 - April 2024

- Developed a C++ program to implement and optimize a Binary Search Tree (BST) for efficient data storage and retrieval. Enhanced search performance by creating a frequency-based BST.

INVOLVEMENT

NC State Club Pickleball Team / August 2024 - Present

- Travel across the east coast to compete in tournaments
- Attend weekly practices

ECE Ambassador / April 2024 - Present

- Guided new Electrical and Computer Engineering (ECE) students in academic and career planning, enhancing their transition into the program.
- Organized ECE events such as social outings, speaker series, and career fairs to promote community engagement and professional growth.

Pi Kappa Phi Fraternity / August 2023 - Present

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