

Andrew Gyakobo

Newark, NJ | [email](#) | (862)-300-777-8 | [linkedIn](#) | [github](#)

Software Engineer

Eagerly looking for a full-time position where I can use my programming skills in Embedded, Web or Automation software development.

Education

New Jersey Institute of Technology - Ying Wu College of Computing, New Jersey

Newark NJ, USA

Bachelor's of Computer Science

- Dec 2024

- Vice President of the NJIT Programming club
- Actively attended the VEX Robotics team, the local NJIT Programming team, and IEEE affiliated conferences and events
- Part of the IEEE membership program and actively participate in ACE/ACM related activities

Professional and Volunteer Experience

New Jersey Institute of Technology, Swissler Innovative Robotics Lab

Newark, NJ

Software Engineer

September 2024 - December 2024

- Developed a bio-inspired algorithm for road routing, simulating slime mold behavior for optimized network formation.
- Utilized Python and OSMnx to enhance route mapping efficiency in urban planning applications.

AWS (Amazon Web Services)

Seattle, WA

Software Engineer Intern

June 2024 - September 2024

- **Developed internal web scaffolding tools** to automate the generation of new web pages and create API systems, streamlining development processes for the AWS Console.
- **Designed and implemented a scripting tool** that reads and compiles Smithy files, enabling seamless integration of web pages on the AWS Console, significantly reducing manual effort.
- **Utilized AWS S3 and Lambda** to enhance the tool's functionality, leveraging S3 for storage and Lambda for executing backend processes, ensuring scalability and efficiency.
- Wrote dozens of pages of documentation.

New Jersey Institute of Technology, ITSRC (Intelligent Transportation Systems Resource Center)

Newark, NJ

Java App Developer

October 2023 - May 2024

- Manufactured and integrated a java app which uses the university on-campus surveillance to inform drivers of potential jaywalkers..
- Ensured compatibility and integration between Java apps and the Verizon cloud database.

Solera .Inc

Dallas, TX

Software Engineer Intern

June 2023 - August 2023

- Produced **C# / .NET** code alongside the Syncfusion Pdf library
- Used Syncfusion for generating, manipulating, and managing PDF documents.
- Constructed and maintained websites for Solera Inc.
- Utilized HTML, CSS, and JavaScript for front-end development.

New Jersey Institute of Technology, CSTR (Center for Solar-Terrestrial Research)

Newark, NJ

Data Analyst and Engineer

May 2022 - June 2023

- Wrote Python code to analyze vast arrays of temperature data(Ion Temperature, Electron Temperature, etc.) supplied by the Poker Flat IS Radar (in short a radio telescope)
- Determined an algorithm to trace sudden spikes in the atmospheric Ion temperature in order to locate and track the unknown phenomenon of Strong Thermal Emission Velocity Enhancement (STEVE)

Technical Skills

Certificates: Mathworks Matlab Course completion certificate, IBM Z Xplore - Concepts, CodePath Intermediate Android Development

Languages: C/C++, Python3, Java, Bash, JavaScript, HTML5, CSS3, C# / .NET, Matlab, SQL, Markdown, Assembly x86, TypeScript, JavaScript, Smithy

Frameworks: ReactJS, React Native, Node.js, Python Flask, Pandas, Numpy, Matplotlib, Rest API, Smithy API, Spring Boot, Apache Maven

Developer Tools: Git, Github, BitBucket, VScode, Visual Studio, PyCharm, IntelliJ, Android Studio, Brazil Build, Github Actions/Workflows, Postman

Awards & Recognition

1. Won **1st place in NJIT's 2021 Hackathon (HackNJIT 2021)** for making a **physics rendering engine** on C++ OpenGL, which simulates a 2D dynamic Fluid Simulation
2. Participated in **Stanford's** annual **hackathon "Treehacks 2022"**, where I assembled a **virus shell simulating engine**
3. Was twice an **NJIT I-Corps award winner** for helping pitch and set up two startup companies
4. Participated and won the ICPC award of "Most Improved Team" where I competed in the Regional ICPC competition

Professional Affiliations

1. Institute of Electrical and Electronics Engineers (**IEEE**)
2. National Society of Black Engineers (**NSBE**)
3. Society of Hispanic Professional Engineers (**SHPE**)
4. Founding father of the **NJIT Phi Delta Theta Zeta Fraternity chapter**