**Andrew Gyakobo**

Newark, NJ | [email](mailto:andygyakobo@gmail.com) | (862)-300-777-8 | [linkedIn](http://linkedin.com/in/andrew-gyakobo) | [github](http://github.com/Gyakobo)

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**