Andrew Gyakobo

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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 generate new web pages and create API systems.
- Worked on API requests and managed databases.

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 driver's 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"**, were 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" were 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**