Angel Nyaga

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CARNEGIE MELLON UNIVERSITY Pittsburgh, PA

B.S. in Electrical and Computer Engineering

Programming Coursework: Web Development, Data Structures, Computer Systems, Principles of Software Construction

Electrical Coursework: Electromagnetics, Control Systems, Signals and System, Electrical Power Systems, Analog Circuits

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EXTRACURRICULAR ACTIVITIES

Twice-Elected Programs Chair | Carnegie Mellon University | National Society of Black Engineers | May 2022 - May 2024
-   Represent and collaborate with a zone consisting of five to eight members of a larger board
-   Support and create programming centered around community support and academic enrichment
-   Work with other programs chairs across the region to improve member experiences in established programming
-   **2024 NSBE Community Member of the Year**

Academic Excellence Chair |Carnegie Mellon University | National Society of Black Engineers | May 2021 - May 2022
-   Host study sessions for members of the chapter
-   Organize a mentorship program for members of the program

EMPLOYMENT

Information Technology Consultant| Carnegie Mellon Chemical Engineering Department | Jan 2025- Present
-   Refined professor-built python project used for microscope display. Focused on updating code, adding coding structure, improving microscope display, and efficiency
-   Determine and maintain inventory of technology in department through physical inspection and SnipeIT
-   Train student workers on basic of IT help desk such as basic hardware repair, managing projects with online ticketing system
-   <u>Leverages knowledge</u> in Customer Service, Troubleshooting, Python, Javascript

Senior Information Technology Student Associate | Carnegie Mellon Chemical Engineering Department | Feb 2023 - Dec 2024
-   Assist Undergraduate, Graduate, and Faculty with troubleshooting problems with their mobile, desktop, and lab devices
-   Select, redesign, and implement a POS system used to order and monitor inventory of lab equipment
-   Design Google Appscript Project to populate and parse spreadsheet with key inventory for department facilities manager
-   Manage content and display of Material Science and Engineering IT website and Chemical Engineering IT website
-   <u>Leverages knowledge</u> in Customer Service, Debugging, Hardware repair, Python, Javascript, Web Development

ENGagED REU Participant | Arizona State University, Tempe, Arizona | May 2022 – Jul 2022
-   Read and transcribed five interviews of engineers sharing their educational experiences
-   Constructed a poster, website, and 1,000+ words abstract containing my research findings (anyaga.github.io/REU)
-   **2024 ERN 3rd Place in Best Poster Presentation in Science and Mathematics Education**
-   <u>Leveraged knowledge</u> in JavaScript, HTML, CSS, research transcription, Dedoose

Code and Content Intern | Codio Inc., Boston, Massachusetts | Jun 2021 – Aug 2021
-   Collaborated with three interns to develop coding-based exercises, transcriptions, and assignments
-   Discussed expectations of products with clients
-   <u>Leveraged knowledge</u> in Git, Python, Java, C++

Facebook Engineer of the Week Intern | pi515, Des Moines, Iowa | Sep 2020 – Jan 2021
-   Design curriculum taught by instructors and reached out to schools and organizations to find potential students
-   <u>Leveraged knowledge</u> in Fundamentals of ChatBots, Teaching, Leadership, Collaboration, Communication

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PROJECTS

Undergraduate Capstone Project - HoverRail (Model Magnetic Levitation Train)
-   Used Lenz's law to design copper wires capable of effectively propeling a train carrier
-   Design magnetic track and magnetic carrier in a manner that promotes stable levitation and propulsion
-   Program a microcontroller to manipulate the current that passes through coils, propelling the carrier
-   <u>Utilized</u>: Electromagnetics, Software, Signal Processing, Design Principles

Web Application Term Project - College Shopping
-   Create items with picture, favorite button, and cart button that are sorted into categories
-   Use OAuth to create profiles and distinguish administrative access (individuals who can edit/add inventory)
-   jQuery/AJAX used to update cart and favorites on individual profile and inventory across multiple profiles
-   <u>Utilized:</u> Django, Javascript, Python, jQuery, Ajax, OAuth, Model-View-Controller Framework, HTML, CSS,

Skills

Python, C, Javascript, Java, HTML/CSS, TypeScript, Hardware Repair, Django, Matlab/Simulink,React, SystemVerilog,Git ,