Nigel Andati

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EDUCATION

Duke University | Duke Kunshan University
Bachelor of Science in Computer Science   Expected May 2028

EXPERIENCE

Duke Kunshan University | *IT Office Software Developer*

- Developed and maintained a diverse portfolio of campus technologies, ranging from the library's textbook reservation and ordering software to custom applications for student clubs and physical computing machines.
- Maintained campus computing infrastructure, ensuring 99.9% uptime through regular security patching, and proactive hardware troubleshooting.
- Maintained the database integrity for library acquisitions, ensuring accurate synchronization between ordering AND reservation.

Equity Group Foundation | *Corporate Analyst Intern*   Apr 2022 – Aug 2022
- Built Python automation scripts for monthly portfolio reporting, reducing manual data processing time by 30%.
- Optimized data extraction using SQL queries and Excel macros to identify financial trends across large datasets.
- Developed interactive dashboards to visualize key performance indicators, facilitating data-driven decision-making.

PROJECTS

Personal Portfolio Website

Semantic Book Recommender | *Python, LangChain, OpenAI, Hugging Face, ChromaDB*
- Developed a RAG-based discovery engine using OpenAI and vector search, integrating zero-shot classification and sentiment analysis to categorize 7,000+ books and improve recommendation precision by 30%.

EchoThread| *React, Tailwind CSS, Node.js, REST API*
- Built a responsive forum with real-time features and a custom REST API, improving rendering speeds by 40% and ensuring 99.9% reliability during high-traffic testing of 1,000+ concurrent requests.

Campus Cat Website (Official University Platform) | *HTML, CSS, JavaScript, GitHub, Netlify*
- Developed and deployed an official university website for tracking campus cats, enabling community reporting of sightings and complaints while implementing an admin-only CMS to securely manage cat profiles and images.

TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, C++
- **Libraries and Frameworks:** Pytorch, HuggingFace, Flask, React.js, Node.js, Tailwind CSS
- **Concepts:** DSA, Software Development Life Cycle(SDLC), LLMs, APIs, System Design, RAG
- **Tools and DevOps:** AWS, Agile, Docker, CI/CD, Git, Github
- **Certifications:** Software Engineering Job Simulation (EA, 2025)

EXTRACURRICULAR ACTIVITIES

- **Member:** Duke Kunshan University Varsity Football
- **Secretary:** Association of African and Black Students
- **Ambassador**: Duke Kunshan University