

Felix Ike. Okoronkwo

+234-816-486-417 | [felixokoronkwo.ike@outlook](mailto:felixokoronkwo.ike@outlook.com) | linkedin.com/in/felix-okoronkwo | github.com/filixyz

EDUCATION

Nnamdi Azikiwe University <i>Bachelor of Engineering in Electronics and Computer Engineering</i> Second class [Upper Division]	Anambra, Nigeria Sept. 2019 – Sept. 2024
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EXPERIENCE

Independent System Programming <i>Independent Work</i>	2023 – Present Remote
Undergraduate Project Assistant–Final Year Project <i>Nnamdi Azikiwe University</i>	Jun. 2024 – Oct. 2024 Anambra, Nigeria
<ul style="list-style-type: none">Developed a BitTorrent protocol application featuring concurrent socket management, peer-to-peer networking, and efficient data exchange, with multithreaded design to support simultaneous connections and scalable file distributionTested several multithreading techniques for C++ applications, implementing system locks, pipeline integration, and thread-safe execution while gaining practical understanding of the C++ memory model, synchronization primitives, and concurrent data structures	

PROJECTS

BitTorrent Application Layer Protocol <i>Modern C++, Libcurl, Boost.Asio</i>	Sept. 2025 – Present
<ul style="list-style-type: none">Developed a Bencode Decoder and Encoder to enable peer communication in network sessionsImplemented a Peer manager responsible for choking, unchoking and managing individual peer connectionsImplemented a serving mechanism responsible for sending data pieces to unchoked connected peersImplemented a concurrent pipeline responsible for feeding received data pieces, hashing them and sending them onto a file managing mechanism that stores said pieces to the designated location on the storage device of the device the application is being ran onImplemented a simple multithreading API that allows multiple instances of the BitTorrent protocol to be ran simultaneously	
Simple Property Rental Web Application <i>Python, LAMP stack, SQLAlchemy</i>	Mar. 2023 – Jun. 2023
<ul style="list-style-type: none">Implemented a python REST API to search availability and process booking requests with persistence in MySQL via SQLAlchemyDeployed and routed traffic using Nginx and Haproxy, and automated server configuration with PuppetConfigured DNS to expose application publicly during deployment	

TECHNICAL SKILLS

Languages: Modern C++, C, Java, Python, SQL (MySQL)

Technical Skills: Multithreading, Networking, Socket Programming, Linux, Git, CMake, Visual Studio

Libraries: STL, LibCurl, Boost.Asio, SQLAlchemy, sdl2, Requests