Ibukunoluwa Chinedu Sanni

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EXPERIENCE

BizBloom   *Dec 2024 - Present*
Full-Stack Developer
- Led the development of a mentorship platform using **React, Django,** and **PostgreSQL**, completing the **MVP** in **9 weeks**.
- **Designed** and **deployed RESTful APIs**, to handle **1000+ simulated concurrent requests**.
- Engineered **authentication** using **JWT** and **Djoser**, reducing registration complexity by **40%**.
- Reduced API response time by **30%** through **query optimization** using **Django ORM indexing** and **caching strategie**s.
- **Facilitated seamless mentor-mentee scheduling** through **third-party booking integration** using **Calendly API**, allowing users to set up and manage meetings effortlessly.
- **Collaborated with a cross-functional team** of designers, developers, and business strategists through **Agile development cycles**, refining platform features based on **stakeholder feedback**.

Black Founders Network   *Jun 2024 - Nov 2024*
Software Developer
- Developed **a scalable backend** for a **Speech-to-Text Android application** through **API-driven architecture** using **Django,** enabling efficient real-time processing.
- Automated **data pipelines** using **Pandas & spaCy**, cutting **pre-processing** time by **30%**.
- **Enhanced NLP model accuracy by 10%** on **700,000+ Yoruba sentence samples** using **Python, Google Gemini** and **Meta LLama**.

Qucoon   *May 2021 - Dec 2022*
Software Developer
- Developed **RESTful APIs** and **backend services** through **microservices architecture** using **Spring Boot and Kotlin**, processing **100,000+ transactions monthly.**
- Reduced **security vulnerabilities** by **15%** through **secure authentication** using **Spring Security and OAuth**.
- **Decreased fraudulent behaviors by 5%** through **tier-based logic implementation** using **business rules and risk-based authentication**, enhancing transaction security.
- Accelerated **junior engineers' growth and team efficiency** through **code reviews, best practices training, and mentorship**.
- Increased **system communication efficiency by 30%** through **integration with 10+ partner systems** using **XML** and **JSON-based** data exchange.
- Increased **software reliability** by **20%** through rigorous **unit testing** and **continuous integration** using JUnit.

PROJECTS

Ray Tracer |*Source*
Tools: OpenGL, C++, Python, Lua
- Developed a ray tracer to generate realistic 3D animations, featuring reflections, refractions,anti-aliasing
- Improved rendering speed by **85%** utilizing **multithreading**, and **batch processing**.

E-commerce Website | *Source*
Tools: Django, React, MySQL
- Designed and developed a **full-stack** E-commerce web application using **Django and React**.
- Implemented a dynamic product listing page, user authentication, shopping cart, and order management system.

SKILLS

Programming Languages: Python, Java, C++, JavaScript, C#
Frontend: React, Tailwind, HTML, CSS
Backend: Django, Node.js, Spring Boot
Databases: PostgreSQL, MySQL, MongoDB
DevOps: Docker, CI/CD, AWS, Azure

EDUCATION

University of Waterloo, Waterloo, Ontario   *Jan 2023 - May 2024*
Masters, Electrical and Computer Engineering | Specialization in Artificial Intelligence/Machine Learning
Villanova University, Villanova, Pennsylvania   *Aug 2015 - May 2019*
Bachelor of Science, Electrical Engineering | Minor in Mathematics | Magna Cum Laude