Emmanuel U. **Iziogo**

SOFTWARE DEVELOPMENT · SOFTWARE ARCHITECT

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Human Resources Department   *November 4, 2024*

PROSPECTIVE EMPLOYER

Job Application for Software Developer

Dear Hiring Manager,

About **Me** ───────────────────────────────

I am a passionate and experienced Software Developer with a strong background in building efficient and scalable systems and software architecture. With over 3 years of experience in developing scalable and robust software solutions, I have honed my skills in various programming languages and technologies. My expertise lies in designing and implementing efficient systems that can handle high-traffic loads while maintaining optimal performance. Also in creating innovative, data-driven solutions for process optimization, automation, and system reliability across industries, including chemical engineering.

Why This **Opportunity?** ───────────────────────

I am passionate about contributing to cutting-edge technologies that solve complex problems and have a meaningful impact on users globally. The chance to work on innovative projects, collaborate with skilled professionals, and continuously learn from new challenges aligns perfectly with my career goals. I thrive in environments that encourage creativity, collaboration, and pushing the boundaries of what's possible in technology. My goal is to leverage my software development expertise to drive meaningful results and contribute to the success of forward-thinking organizations.
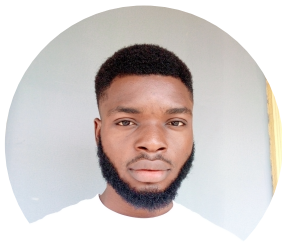
Why **Me?** ───────────────────────────────

I believe my unique blend of technical skills, problem-solving abilities, and passion for innovation makes me an ideal candidate for this opportunity. My experience in developing and optimizing large-scale software systems has equipped me with a deep understanding of implementation practices, building and maintaining large-scale, distributed systems. I have a proven track record of optimizing system performance, implementing robust monitoring solutions, and effectively managing incidents. Additionally, my background in software architecture allows me to approach problems from both a high-level design perspective and a detailed implementation viewpoint. I am eager to apply my expertise to meaningful projects that drive innovation and enhance accessibility, contributing positively through collaboration and creativity.

Sincerely,

Emmanuel U. Iziogo

Attached: Curriculum Vitae

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Education

FUTO (Federal University of Science and Technology, Owerri) *Owerri, Imo State*

B.ENG. IN CHEMICAL ENGINEERING *Nov. 2018 - April 2024*

- Got a Session Scholarship which is given to promising students in CHE Dept.

Professional Development

3MTT (3 Million Technical Talent) *Nigeria*

SOFTWARE DEVELOPER PROGRAM *March 2024 - July 2024*

- Got award for the best project in the program.

Coursera *Online*

META BACKEND DEVELOPER SPECIALIZATION *March 2024 - July 2024*

Skills

DevOps	AWS, Docker, Kubernetes, Terraform, Jenkins
Back-end	Django, Node, REST API
Front-end	Hugo, Redux, React, HTML5, SCSS
Programming	Python, Node.js, MatLab, LaTeX
Languages	English, French, Igbo

Work Experience

Ralpha Hospital and Maternity *Ebonyi, Nigeria*

CHIEF TECHNOLOGY OFFICER *February 2020 – Present*

- Spearheaded the development and maintenance of the hospital's digital infrastructure, including website development and system automation.
- Conducted in-depth research into the integration of technology within the medical field, proposing and implementing tech-driven solutions to enhance hospital operations and patient care.
- Collaborated with medical staff to assess technology needs, improving process efficiency through tailored tech solutions, and future-proofing hospital systems against emerging challenges.

Department of Chemical Engineering, FUTO *Owerri, Imo state*

LEAD DEVELOPER *November 2022 – April 2024*

- Led a multidisciplinary team in designing and deploying an innovative feed composition variation system aimed at optimizing sequencing in distillation columns for chemical industries.
- Architected the system's backend to ensure scalability and reliability integration into existing industrial workflows.
- Developed and deployed a secure, decentralized voting system utilizing blockchain technology to ensure tamper-proof elections at FUTO, providing enhanced transparency and accuracy in voting processes. Managed end-to-end deployment and maintenance of the system, supporting over 10,000 users in real-time.

MoniePoint Microfinance Bank *Nigeria*

BACKEND DEVELOPER *June. 2024 - September. 2024*

- Developed a robust Loan Fraud Detection System using machine learning algorithms to analyze loan data patterns and detect fraudulent activities.
- Collaborated with cross-functional teams to ensure smooth deployment and continuous improvement of the system.

3MTT
Nigeria

QUANTUM COMPUTING PROJECT
March. 2024 - July. 2024

- Developed and optimized quantum circuits using Qiskit and Q for large-scale climate simulations.
- Designed and deployed a RESTful API for seamless integration of quantum-computed climate models with existing environmental research platforms, facilitating broader adoption among the scientific community.

Scion Trust
Kenya

FULL-STACK DEVELOPER
Aug. 2021 - Dec. 2022

- Redesigned Scion Trust's corporate websites, integrating advanced payment gateways to support seamless transactions across multiple platforms.
- Implemented overall Android application logic and wrote API server for community service, along with lead engineer who designed bidding protocol on raw socket and implemented API server for bidding.

Living Seed Supermarket
Lagos, Nigeria

SOFTWARE DEVELOPER
Aug. 2024 - Oct. 2024

- Developed a robust, scalable POS system for Living Seed Supermarket, handling real-time inventory management and transaction processing.
- Contributed to the e-commerce platform for the supermarket, enabling online sales and facilitating seamless integration between in-store and online inventory systems.

Various Clients
Remote

FREELANCE SOFTWARE DEVELOPER
Aug. 2020 - Present

- Developed "TaskSphere" for ProductivityTech Inc., a comprehensive task management solution featuring Google services integration, time tracking, and multi-channel notifications.
- Engineered a scalable e-commerce platform for FashionForward Boutique, implementing secure payment gateways and real-time inventory management.
- Designed and implemented a high-performance RESTful API for FinEdge Solutions, enhancing their portfolio management system's data retrieval speed.
- Optimized backend infrastructure for GlobalNews Network, implementing advanced caching strategies and query optimizations.
- Developed a cross-platform mobile application for FitTech Innovations, incorporating real-time workout tracking and social features.

Extracurricular Activity

NodeTech
Owerri, Imo state

FOUNDER & LEAD ORGANIZER
March. 2021 - Present

- Organize monthly meetups for 100+ local developers, featuring tech talks and coding workshops and focusing on software engineering and building network on and off campus.
- Facilitated networking opportunities, resulting in 8 successful job placements for group members.

GitHub & GitLab

OPEN SOURCE CONTRIBUTOR
Mar. 2021 - Present

- Contributed to popular open-source projects, including [Loan-Fraud Detection System], [Decentralized Voting System], [Point of Sales Management System] and [Eshopper]
- Implemented new features and fixed bugs, with 9+ pull requests merged across different repositories

CoderTec
Owerri, Ino State

VOLUNTEER INSTRUCTOR
Sep 2022 - Present

- Teach weekly coding classes to underprivileged children aged 10-14
- Developed a curriculum that introduces basic programming concepts using Scratch and Python

Various Non-Profit Organizations

TECHNOLOGY VOLUNTEER
April 2022 - Present

- Devpost: Participated in multiple hackathons, developing innovative solutions for social and environmental challenges
- TechSoup: Assisted non-profits in implementing and optimizing their technology infrastructure
- Taproot Foundation: Provided pro bono web development services to non-profit organizations, enhancing their online presence
- VolunteerMatch: Engaged in various technology-related volunteer opportunities, contributing to community-driven projects

ForexHive & Dollar Mine Fx
Owerri, Imo State

FOREX TRADER AND MENTOR
Jan. 2021 - Present

- Developed and implemented data-driven trading strategies, leveraging programming skills to create automated trading systems
- Mentored 70+ aspiring traders, creating educational content and conducting one-on-one coaching sessions
- Applied statistical analysis and machine learning techniques to optimize trading performance

Honors Awards

INTERNATIONAL

2023	**Top Performer**, HackCamp 2023		*Online*
2022	**Finalist**, Outreachy Open Source Internship Program		*Online*

DOMESTIC

Presentations

Chemical Engineering Department Final Project   *Federal University of Technology, Owerri, Nigeria*

PRESENTER FOR <OPTIMUM SEQUENCING OF DISTILLATION COLUMNS>   *March 2024*

- Analyzed and presented the effects of feed composition variations on distillation column sequencing efficiency.
- Demonstrated advanced knowledge in chemical engineering processes and optimization techniques.

Chemical Engineering Department Capstone Symposium   *Federal University of Technology, Owerri, Nigeria*

LEAD PRESENTER FOR <FINAL PLANT DESIGN PROJECT>   *Nov. 2023*

- Designed a 100,000-tonnes/year acetic anhydride production plant utilizing the Monsanto process and Enugu coal basin resources.
- Conducted detailed economic analysis, process optimization, and environmental impact assessment, demonstrating the project's feasibility and sustainability.

ForexHive Webinar   *Online*

TECHNICAL SPEAKER FOR <PYTHON ALGORITHM FOR FOREX ANALYSIS AND PORTFOLIO OPTIMIZATION>   *Aug. 2023*

- Developed and presented a Python-based algorithm for advanced forex market analysis and portfolio optimization.
- Demonstrated practical application of data science in financial markets, focusing on risk management and return optimization.

NodeTech Developer Conference   *Lagos, Nigeria*

WORKSHOP LEADER FOR <SOFTWARE DEVELOPMENT ARCHITECTURE AND BEST PRACTICES>   *Oct. 2023*

- Introduced modern software development architectures and their practical applications in real-world scenarios.
- Guided participants through best practices in program implementation, emphasizing code efficiency, scalability, and maintainability.

Writing

Software Development Insights   *NodeTech*

AUTHOR & TECHNICAL BLOGGER   *Mar. 2022 - PRESENT*

- Publish weekly articles on software development best practices, focusing on Python, web technologies, and clean code principles.
- Authored a series on integrating machine learning algorithms in forex trading applications, garnering over 10,000 monthly readers.

Forex Trading Strategies for Developers   *TechTrader Magazine*

CONTRIBUTING WRITER   *Jun. 2022 - PRESENT*

- Contribute monthly articles on leveraging programming skills in forex trading, covering topics such as algorithmic trading and data analysis.

Program Committees

2024   **Technical Reviewer**, International Conference on Financial Engineering (ICFE)   *Virtual*

2024   **Panel Member**, African Developers Conference (AfriDev)   *Virtual*

2023   **Volunteer Coordinator**, HackNigeria: National Coding Competition   *Lagos, Nigeria*

2023   **Workshop Organizer**, Python for Quantitative Finance Symposium   *Lagos, Nigeria*

2023   **Student Poster Judge**, Nigerian Society of Chemical Engineers Annual Conference   *Abuja, Nigeria*