

JOEL AUDU

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Professional Summary

I'm a Senior Full-Stack Software Engineer with 10+ years of experience in Python, Node, Reactjs, Vuejs, Dart and QML. I'm immediately available for remote full-time, contract, or freelance Work.

Technical Skills

Programming Languages:

- Python: 10 years
- JavaScript (ES6): 9 years
- TypeScript: 6 years
- C++: 3 years
- PHP: 3 years
- C: 3 years
- Dart: 2 years

Frameworks & Libraries:

- **Web:** Flask, Node, Sveltejs, NextJs, Nuxtjs, React and VueJs
- **Mobile:** React Native and Flutter
- **CSS Frameworks:** Tailwind CSS, Bulma, Bootstrap and Materialize CSS.
- **Database:** MongoDB, MySQL, SQLite, IndexDB, PouchDB, Isar and WatermelonDB
- **DevOps & Cloud:** AWS, Docker, CI/CD pipelines, Load Balancing and VPS setups.
- **Others:** Redis, FastAPI, FFmpeg, jQuery, Machine Learning and AI Function Call specialist

Additional Skills:

- System Design: 5 years
- Team Management & Tech Lead: 4 years
- Unit Testing: 5 years
- Code Reviews: 7 years
- Cloud Security: 4 years
- Artificial Intelligence: 6 years
- VoIP: 6 years
- Vibe Coding Cleanup Specialist: 3 years
- 3D modelling with Blender: 2 years

Work Experience

Full-Stack Software Engineer

Polar Frequency – November 2023 – Present

- **AI-Driven Systems Architecture:** Worked in with a team of developers on end-to-end development of an AI-Powered advertising application, leveraging provided data to optimize automated social media campaigns across current social media platforms.
- **Full-Stack Product Development:** Worked on core backend features associated with realtime data transmission and live interview session for both AI - human and human to human, took on the team lead role for the frontend development on [Goghr](#), which is an AI-driven interview and application management platform using React and FastAPI.
- **Team Lead (React Native)** : Led the development of Affirmatrix, a cross-platform mobile application; built with React-Native to generate AI-powered personalized affirmations for mental health and growth.
- **Advanced Media Processing:** Engineered [Audiobeep](#), a sophisticated audio-editing tool integrating **Demucs** (source separation) and **Whisper-X** (transcription) to remove profanities from audio in real-time and also file format. (web and system application)
- **Modern Web Stack Implementation:** Built and deployed highly intuitive interfaces using Next.js and React, backed by robust FastAPI micro-services, ensuring high scalability and availability.

Frontend Software Developer

Teamwell – December 2022 – October 2023

- **Enterprise HR System Development:** Contributed to the development and maintenance of the [Teamwell](#) HR system, using Vue.js to build features for managing company resources, employee on-boarding, off-boarding, task, agendas and leaves.
- **Calendar Integration:** Worked within the development team to implement custom calendar views using **Vue-FullCalendar**, integrating business logic to handle scheduling and data display.
- **UI/UX Implementation:** Developed and refined UI components to ensure smooth user experience for HR administrative tasks and data-heavy work flows.

Software Developer

Techvibes International Limited – November 2021 – December 2022

- Developed the [Qampusplus](#) online portal, integrating PHP, Laravel, Python, and Django to streamline school data management and improve record-keeping. Ensured seamless user experience for school staff through efficient fee payment and course registration systems.
- Developed [VBSHR](#), an Human Resource management tool built to be a SaaS tailored towards business solutions. Integrating Laravel and Vuejs to create an enhanced user experience.
- **Educational Platform Development:** Contributed to the development of [Qampusplus](#), an online dynamic school portal; utilized PHP(Laravel) and Python(Django) to streamline data management, fee payments and course registration systems.
- **SaaS Product Engineering:** Developed features for [VBSHR](#), a Human Resource management tool, using Laravel and Vuejs to build scalable business solutions and administrative dashboards.
- **System Integration:** Implemented backend logic and frontend interfaces to improve record-keeping efficiency and user experiences for school administrative staff (offline features integration).

Web Developer

Freelance – January 2020 – August 2021

- **Full-Stack Platform Development:** Designed and built [Pendustry](#), a book publishing platform for writers to upload their books and readers to gain access to their published materials. Implemented using Svelte and Python Flask micro-web framework.

- **Database & Performance Optimization:** Handled database migration from SQLite to MySQL and re-factored API endpoints to improve system response times.
- **Security Implementation:** Integrated secure user authentication and session management using Flask-Login, ensuring data protection for real-time user interactions.

Software Developer

Hiosoft Limited – August 2018 – August 2021

- **E-Learning Platform Development:** Designed and built the core features of [Codesideacademy](#), an online learning system; utilized Flask, vanilla Javascript and HTML/CSS.
- **Media Processing & Streaming:** Built optimized video streaming functionality using FFmpeg for optimized media formatting and delivery.
- **Feature Integration:** Developed modules for secure video course access, user enrollment and payment gateway integration to streamline learning experience.

Junior Software Developer

Harmony Innovation – April 2018 – November 2018

- Developed Harmony Youth Empowerment web application using Flask and Python for youth learning resources, integrating middle-wares for session management and preventing unauthorized actions.
- **Youth Empowerment Platform:** Contributed to the development of the Harmony Youth Empowerment web application, using Flask, vanilla Javascript and HTML/CSS to deliver educational resources to users.
- **Security & Session Management:** Assisted in implementing middle-wares for session handling to ensure secure user authentication and prevent unauthorized access to platform features.
- **Feature Support:** Worked on backend logics to manage user data and streamline the delivery of learning materials within the application.

Achievements:

- Reduced page load time by 45% across multiple frameworks and front-end technologies
- Optimized backend data retrieval by implementing a multi-tier caching strategy, reducing server response times by 43% measured with Locust.
- Architected a high throughput real-time backend that successfully sustained over 1M+ concurrent, long lived Websocket connection with zero connection drops, maintaining sub-100ms message delivery latency under peak load.
- Built a SaaS Platform serving 500,000 + active user.

Side Projects: www.github.com/mrJaysa

- **Python RDP:** Remote desktop control application built with Python, Flask, JavaScript, and PyQt5.
- **Phone Inventory:** A simple inventory system for mobile phones, implemented with Python/Flask for the back-end and HTML/CSS/JavaScript for the front-end.
- **Custom QuillJS:** Experimented with drag-and-drop functionality in QuillJS using Vue.js and JavaScript.
- **URL Shortener:** A basic URL shortening service created using Flask and Python.

Education

First Leaving School Certificate

Local Education Authority (LEA) Gbazango (2001 to 2007)

Basic Education Certificate Examination (BECE)

Jewel Model School (2007 to 2009)

West African Examination Council (WAEC)

Government Secondary School JIBI (2010 to 2013)

Bachelors in Computer Engineering

Federal University Of Technology Minna (2014 to 2020)

Languages

- **English:** Native
- **German:** Beginner

References are available upon request.