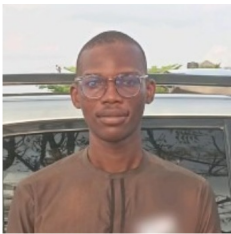


SOLOMON AKPURU

Software Engineer



PERSONAL DETAILS

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GitHub: github.com/solobarine

WORK EXPERIENCE

Lead Engineer and Founder Feb 2025 – Present
Toucan
Currently paused while seeking full-time opportunities

- Founded and led the development of Toucan, a social media app focused on close connections, real-time interaction, and user privacy – rejecting data harvesting and algorithmic manipulation.
- Designed and built a real-time chat system using WebSockets and Phoenix Channels, enabling private one-to-one conversations with custom presence tracking and seamless message delivery.
- Implemented a personalized feed algorithm that prioritizes content from close connections based on relationships, engagement, and recency – promoting relevance over virality.
- Engineered JWT authentication and OAuth integration (Google, GitHub), with secure token parsing and refresh logic across the Phoenix API and React client.
- Built a responsive, theme-aware frontend with dark/light mode toggles, TailwindCSS, and Redux Toolkit for global state management – ensuring a modern, fast, and user-friendly interface.
- **TECHNOLOGIES USED:** React, TypeScript, Elixir Phoenix, Postgres, WebSockets

Lead Engineer and Founder Apr 2025 – Present
RechargePadi
Currently paused while seeking full-time opportunities

- Spearheaded the design and development of a fully automated bills payment platform, enabling users to subscribe to essential utilities with a seamless experience and guaranteed refund safety net.
- Engineered a resilient transaction engine with smart error detection and automatic refund logic, maintaining financial accuracy and boosting user trust during service downtimes or failures.
- Built modular APIs and payment adapters for multiple bill types, streamlining integration of future providers and reducing onboarding time for new services by over 60%.
- Led UX design for real-time transaction feedback, including in-app status updates, retry prompts, and transparent refund status, increasing successful transaction rates and user satisfaction.
- **TECHNOLOGIES USED:** NuxtJS, TypeScript, Ruby on Rails, TailwindCSS, Postgres

Web Developer May 2024 – Jan 2025
Digital Factory, Remote, Chicago

- Led a UI/UX optimization initiative, achieving a 24% reduction in load times and a 20% improvement in Core Web Vitals across 12 key application screens.
- Modernized the codebase by upgrading deprecated dependencies and replacing unsupported packages with actively maintained alternatives.

- Migrated the file management system from Paperclip to Active Storage, improving maintainability and compatibility with modern Rails versions.
- **TECHNOLOGIES USED:** Ruby on Rails, JavaScript, AWS, Nginx, Postgres, SCSS

Software Engineer – Consulting

Jan 2023 – Present

Remote, Port Harcourt

- Delivered property rental SaaS platform serving 2K+ landlords and tenants, featuring real-time search with 80% faster query performance through optimized indexing and caching strategies
- Built crypto-fiat exchange infrastructure processing \$30K+ monthly volume across 5+ cryptocurrencies, implementing fraud detection reducing chargebacks.
- Architected e-commerce platform for digital art marketplace, integrating Stripe payments and achieving 99.95% transaction success rate with automated reconciliation
- Developed a recommendation engine increasing user engagement by 32% through collaborative filtering algorithms analyzing 8K+ user interactions
- **TECHNOLOGIES USED:** Laravel, NextJS, NuxtJS, Ruby on Rails, TailwindCSS, Postgres, MongoDB

Software Engineer

Nov 2023 – Feb 2024

Savasana AI, Remote, New York

- Built Chrome extension increasing support agent productivity by 50%
- Designed serverless backend architecture using AWS Lambda and API Gateway, reducing infrastructure costs by 23% while improving response times by 12%
- **TECHNOLOGIES USED:** Plasmio, TypeScript, Express, JavaScript, Firebase, AWS Lambda

PROJECTS

Toucan

- Designed and implemented scalable system architecture using Elixir Phoenix for high-concurrency messaging
- Implemented OAuth using Google and GitHub for easy authentication
- Built real-time features supporting 500+ messages per second with sub-50ms latency
- Optimized database queries reducing response times by 45% through strategic indexing and connection pooling
- Implemented instant notifications using websockets and background workers
- **TECHNOLOGIES USED:** React, TypeScript, Elixir Phoenix, Postgres, TailwindCSS, WebSockets.

Cryptocurrency Exchange MVP

- Architected multi-currency trading platform with real-time price feeds and order matching engine
- Implemented comprehensive fraud detection system achieving 99.8% accuracy in suspicious transaction identification
- Built regulatory compliance framework supporting KYC/AML requirements across 5 jurisdictions
- **TECHNOLOGIES USED:** React, Typescript, Laravel, PHP, Postgres, TailwindCSS, NowPayments, Flutterwave

Property Listings Platform

- Developed comprehensive rental management platform with tenant/landlord portals
- Implemented advanced search with geolocation, filtering, and real-time availability updates
- **TECHNOLOGIES USED:** NextJS, TypeScript, Ruby on Rails, Postgres, TailwindCSS, Paystack, Google Maps

Meals Recommendations Algorithm

- Designed an Algorithm to recommend meals to users based on past interactions and orders.
- **TECHNOLOGIES USED:** Ruby on Rails, Postgres, Redis

SKILLS

React

Elixir Phoenix

Ruby on Rails

NextJS

Laravel

MongoDB

TypeScript

Postgres

TailwindCSS

NuxtJS

Postgres

CI/CD Pipelines

EDUCATION

Petroleum and Gas Engineering

University of Port Harcourt

Aug 2016 – Feb 2023

Software Development

Microverse, Remote, San Francisco

Jun 2022 – Jul 2023

OPENSOURCE CONTRIBUTIONS

Openstack

- Developed a patch to prevent active replica state resets, mitigating potential data loss. [link](#)
- Updated Documentation to feature new Openstack CLI instead of the deprecated Manila CLI. [link](#)

Wikimedia

- Enhanced SEO by implementing dynamic page titles for improved navigation and search visibility. [link](#)
- Added tests to JavaScript actions to verify correct functionality. [link](#)