

Lucky (Osasumwen) Pius

Senior Tech Lead & Fullstack Engineer — Payments, Crypto & Platform Infrastructure

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Portfolio luckypius.netlify.app **GitHub** github.com/PiusLucky **LinkedIn** [lucky-pius](https://www.linkedin.com/in/lucky-pius) **YouTube** [@NewAwesomeTech](https://www.youtube.com/@NewAwesomeTech)

PROFILE

Tech lead and fullstack engineer with 8 years building the backend systems money moves through — payment rails, multi-chain crypto infrastructure, KYC/AML that holds up under audit, and the SDKs merchants integrate against. Currently leading engineering delivery at Vittas Inc, where I own the merchant integration surface end to end: an embeddable checkout widget, a published React package, a WooCommerce gateway and the Terraform infrastructure that delivers them.

WORK EXPERIENCE

Vittas Inc (Techstars '22) CURRENT

Jun 2026 — Present

Tech Lead (full-time) — *Lagos, Nigeria · Hybrid*

- Promoted to lead engineering delivery on Vittas Core, owning technical direction across mobile, backend, frontend and the merchant SDKs.
- Shipped the Vittas Core Payment Widget — an embeddable checkout running in a sandboxed iframe so merchant JavaScript can never reach the payment UI. Built an 8-state payment UI machine, a typed postMessage protocol, and SSE-driven live status with terminal-state handling; released 0.3.0 → 0.7.0 on an automated conventional-commit pipeline.
- Published [@vittascore/payment-widget-react](#), the official fully typed React package, and defined the [@vittascore/payment-widget-{framework}](#) convention behind the Vue and Angular roadmap.
- Built Vittas Payments for WordPress — a WooCommerce gateway for classic and block checkout, a shortcode and Gutenberg block for non-WooCommerce sites, and a signed server-to-server webhook receiver.
- Designed the integration security model: sessions created server-side with a secret key, the browser holding only a session-scoped client secret, and amount and currency locked server-side against tampering.
- Provisioned delivery infrastructure as code with Terraform — widget CDN on S3 and CloudFront, shared static-assets module, Cognito custom-message Lambda, and deploy workflows hardened against state-lock failures.
- Authored the developer documentation merchants integrate from, plus the PRD, architecture and UX brief for the Core AI Copilot initiative.

Ubyco — UbyFlow & Finqard

Apr 2026

Tech Lead & Backend Engineer — *Remote*

- Lead backend architecture across two fintech products: UbyFlow (crypto and payments) and Finqard (gift-card trading, virtual dollar cards, bill payments).
- Engineered multi-chain crypto deposit infrastructure on the Obiex API — 8 assets (BTC, ETH, USDT, USDC, BNB, TRX, SOL, MATIC) across 7 networks, with per-user address provisioning, HMAC-SHA256-verified webhooks and atomic wallet crediting.
- Delivered tiered KYC/AML (Tier 1→3) via Dojah, matching BVN and NIN against a liveness selfie, with server-side image compression and encrypted PII at rest.
- Implemented two-factor authentication from scratch, including an in-house RFC 6238 TOTP engine (no otplib or speakeasy), single-use counters, staged pending secrets and an opaque non-JWT login challenge.
- Built end-to-end RSA (OAEP/SHA-256) passcode encryption — the passcode never travels in plaintext and is bcrypt-hashed at rest.
- Authored the platform-wide API contract for Finqard: a strict meta/data response envelope enforced by a global interceptor, with Swagger schemas generated from the same builders so documentation cannot drift from runtime.

Edatech.ai

Mar 2026

Tech Lead — *London, United Kingdom · Remote*

- Led the full-stack rebuild of the AI-driven learning portal (TypeScript backend, React frontend), owning architecture, delivery cadence and code standards across the team.
- Shipped a 22-game learning module from prototype to production, standardising CSS variables, lint conventions, shared audio and a common maths-rendering layer so every game renders curriculum content identically.
- Rebuilt the Teacher Lesson Planner as an objective-centric experience backed by a new set of planner APIs, and delivered an exam-papers engine with exam-board selection and topic-scoped generation.
- Designed and shipped a four-tab QA portal plus three printable manual-QA runbooks, turning ad-hoc testing into a repeatable process.
- Rearchitected media delivery onto AWS CloudFront — moved 271 audio, avatar and scene assets out of the repository to a CDN, cutting clone size and page load time.
- Automated narrated product demos with Playwright, publishing audio, silent and transcript variants to the CDN for stakeholder review.
- Built the curriculum seeding pipeline that loads QA-approved question banks, and replaced hardcoded demo values across achievements and leaderboards with real ranking, streak and tier-progression data.

Vittas Inc (Techstars '22)

Nov 2023 — May 2026

Fullstack Developer — Consultant — *Lagos, Nigeria · Hybrid*

- Built the Vittas Loan Application (Mobile) end to end using React Native, delivering a scalable cross-platform solution that increased mobile user adoption by 18% and reduced loan application completion time by 15%.
- Refactored and optimised existing backend and frontend architecture to better support growth, improving transaction handling capacity by 25% and reducing production-related incidents by 15%.
- Designed and implemented secure API integrations between the Vittas core platform and multiple financial institutions, incorporating encryption, token-based authentication and structured audit logging for financial data security compliance.
- Partnered with Product, Risk and Compliance to ensure regulatory alignment across lending workflows, reducing review iterations and improving audit preparedness.
- Improved API performance and data synchronisation processes, decreasing loan processing latency by 12%.
- Introduced modular architecture and cleaner service abstraction layers, and contributed to CI/CD improvements and structured release processes.

TiqBuy

Apr 2024

Backend Developer — *Remote*

- Led the MedusaJS v1.20 → v2.16 platform rewrite, re-architecting modules, data models and the event system onto v2's module architecture, and documenting the ORM, decorator and event-naming pitfalls the migration surfaced.
- Diagnosed and patched a live RBAC gap where read permissions were granted to every admin regardless of role, shipping the fix as a framework-level patch.
- Built a high-volume product seeder provisioning catalogue data via raw SQL, working around a standalone-loader failure on the store's default sales-channel relation.
- Hardened admin API routes — corrected field injection through Medusa's queryConfig layer and fixed route-matcher regexes that silently bypassed middleware.
- Enforced a zero-tolerance type-safety bar: every change ships passing `tsc --noEmit` with no suppressions, on short-lived branches into a PR-protected main.

PadiePay Global Payments

Jan 2024

Lead Backend Engineer (full-time) — *Delaware, United States · Remote*

- Architected and led development of the backend endpoints powering the PadiePay cross-border remittance platform across web, admin and mobile.
- Built against Money Service Business regulatory requirements in Canada (FINTRAC) and the United States (FinCEN).
- Leveraged Node.js and TypeScript for a cohesive full-stack implementation, providing strategic technical direction that improved overall development efficiency by 20%.
- Aligned technical solutions with business objectives across the fintech and global remittance markets.
- Conducted regular code reviews across frontend and backend, and mentored team members — a 30% increase in team capabilities.
- Championed coding standards and best practices throughout the development lifecycle.

Polar Frequency LLC

Oct 2023

PM / Technical Lead, Senior Fullstack Engineer (full-time) — *Dubai, UAE · Remote*

- Led both the technical architecture and product strategy for GogHR, an AI-powered recruitment platform streamlining hiring workflows for recruiters and improving application experiences for candidates.
- Spearheaded the end-to-end development of SocialForce, driving product vision, system design and delivery — launching v1 within the first month.
- Engineered Affirmatrix (Mobile), a personalised AI-driven affirmation platform generating dynamically tailored content for diverse user profiles.
- Optimised and enhanced the core translation and audio-mixing algorithms for AudioBeep, significantly improving profanity detection and masking accuracy.

GastroDev

Mar 2024 — Dec 2025

Fullstack Developer — Consultant — *Berlin, Germany · Remote*

- Led the design and development of a fullstack restaurant operations platform using Next.js 14, Python/Flask, Electron and PostgreSQL.
- Built dynamic, responsive UI components for real-time menu editing, order tracking and POS functionality, and developed RESTful APIs for order workflows, table assignments and customer data.
- Integrated secure third-party payment gateways for online and in-person transactions, and engineered inventory tracking and alert systems to reduce food waste.
- Implemented advanced role-based access controls for staff, kitchen and admin users.
- Designed analytics and reporting dashboards using Chart.js and custom SQL queries, and optimised performance through API rate-limiting and query tuning.
- Contributed to CI/CD pipelines using GitHub Actions and Docker for streamlined deployments.

FILLYCODER

Jun 2023 — Dec 2024

Frontend Developer (Contract) — *Accra, Ghana · Remote*

- Delivered the Care-in-Touch (CIT) user dashboard in 7 days, reducing projected delivery time by 40% and enabling early-stage validation with stakeholders ahead of schedule.
- Built modular, reusable UI components leveraging React 18 features (Concurrent Rendering, Hooks, Suspense, Automatic Batching), enhancing rendering performance by 25% and component reusability by 45%.
- Optimised state management and minimised unnecessary re-renders, reducing client-side load time by 20%.
- Collaborated closely with Product Managers, Designers and Backend Engineers, improving requirement clarity and reducing post-release revisions.
- Implemented structured code reviews and clean architecture principles, decreasing production hotfix frequency by 25% post-launch.

Connectivo AB

Dec 2022 — Oct 2023

Fullstack Developer (Contract) — *Göteborg, Sweden · Remote*

- Designed and developed full-stack applications using Django and Vue 3, implementing scalable backend services and component-driven frontend architectures.
- Contributed critically to the development and stabilisation of multiple products including Swishlink (now Payero), Automatiseramera, Golfigo, Synkio, TicketNinja and HRM systems.
- Implemented Google reCAPTCHA v3 and advanced validation mechanisms, reducing spam submissions by over 80%.
- Architected enterprise-grade systems leveraging Service-Oriented Architecture principles and RESTful APIs for modularity and long-term scalability.
- Designed and optimised database schemas, query performance and indexing strategies, and developed secure authentication and role-based authorisation workflows.

Bullafric International Ltd.

Aug 2022 — 2025

Backend Developer (Lead) — *Lagos, Nigeria · Remote*

- Led the backend infrastructure design of TransFi, a B2B crypto payment platform for the transport industry.
- Led the backend infrastructure design of Xcursions, a one-stop platform for travel, vacation and relaxation with an in-built wallet and savings plans.
- Wrote standard Postman documentation for all created APIs and built a full-scale testing suite covering both the main application and administrative controls.
- Worked directly with the CTO, PM and other stakeholders throughout core implementation.

Mustardstone Technologies

Jan 2022 — Apr 2025

Backend Engineer (Lead) — *Lagos, Nigeria · Remote*

- Bootstrapped the launch of v1 of the MVP within two months.
- Developed CI/CD workflows for deploying apps across dev, stage and production environments via AWS services.
- Built integration libraries and SDKs to interface with the backend server and APIs.
- Deployed and debugged cloud stacks, and designed monitoring, log-processing, metrics-collection and data-visualisation platforms.
- Administered Linux-based infrastructure and applied unit testing, code review, test automation and continuous delivery throughout.

Nitax Technologies Limited (NXT)

Jan 2022 — Sep 2022

Front-End Web Developer — *Remote*

- Registered major route components using React's built-in lazy async function, splitting the application bundle into chunks and improving usability and performance by up to 76%.
- Enhanced front-end performance through image optimisation and clean coding practices, accelerating load times.
- Transformed Figma designs into pixel-perfect web applications and implemented on-page SEO across the board.
- Utilised Agile methodology and Scrum for process management.

Fiverr — Platform

Aug 2020 — Jan 2022

Fullstack Developer (Freelance)

- Bootstrapped real-time scalable chat applications with Socket.IO and Redis.
- Developed and maintained Application Programmable Interfaces (APIs) across a range of management platforms and their UIs.
- Troubleshoot and extended code from outside sources; worked on enterprise applications with Service-Oriented Architectures and REST.

OPEN SOURCE & PUBLISHED PACKAGES

@vittascore/payment-widget-react

2026

Author — *Official React SDK for Vittas checkout*

- Fully typed React package exposing a `<PaymentWidget />` component and `useVittasPayment` hook, built with tsup and shipped with React as a peer dependency.

vue3-multi-stepper

2023

Author — MIT · npm · github.com/PiusLucky/vue3-multi-stepper

- Customisable multi-step form component for Vue 3 with step validation hooks, configurable finalisation, loading states and themeable colours, titles, icons and button text.

QUALIFICATIONS

Web Technologies: Proficient in architecting and developing fullstack applications using **Python** (Flask, FastAPI, Django), **JavaScript/TypeScript** (Node.js, NestJS, Express.js), and modern frontend frameworks such as **React** (TypeScript, React Query, Recoil, MUI), **Vue 2/3** (Pinia, Nuxt.js) and **Next.js**. Skilled in building scalable APIs and real-time systems using **WebSockets (Socket.IO)**, **Redis Pub/Sub** and **webhook integrations**.

Data & ORM: Experienced in ORM and database management with **Sequelize, TypeORM, Prisma, MikroORM, Beanie ODM** across **PostgreSQL, MongoDB, MySQL and SQLite**; adept at asynchronous flows, caching strategies and advanced query optimisation.

Payments, Crypto & Identity: Payment and KYC gateway integrations including **Paystack, Flutterwave, Stripe, Fintava, Fincra, Bridge, Miden, Amadeus Discover, AlPrise, Dojah** and **Obiex**; blockchain transaction systems via **Tatum API**; multi-chain deposit infrastructure, tiered KYC/AML and RFC 6238 TOTP two-factor authentication.

E-commerce: **MedusaJS v2**, WooCommerce gateway development, Shopify integrations.

Cloud & Infrastructure: AWS (S3, CloudFront, Cognito, EC2, ECS, SES), **Terraform**, GCP, Heroku, Netlify, Vercel, Digital Ocean, cPanel, Cloudinary, Cloudflare, Render and Railway.

Containerisation & Automation: Docker; CI/CD with GitHub Actions and CircleCI; Selenium, schedulers, SonarQube and Sentry.

Testing Tools: Mocha & Chai, Supertest, Jest, Vitest, Pytest, React Testing Library, unit and integration testing, end-to-end testing with Cypress and Playwright.

Project Management: Jira, Monday, Basecamp, Trello, Asana.

EDUCATION

Economics and Statistics (BSc.) — University of Benin

Aug 2015 — Aug 2019

Graduated with second-class upper division (4.34 CGPA).

CERTIFICATIONS

Jobberman Accelerated Soft Skills Training — jobbermansoftskills.thinkific.com/certificates/l6qobbopfm

INTERESTS

Getting my hands dirty on reverse engineering APIs.

REFERENCES

References available upon request.