

Parkson Daniel Tano

Chief Technology Officer | Senior Backend & Fintech Engineer

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Chief Technology Officer, Senior Backend Engineer, and Computer Science Educator with 7+ years of experience building scalable fintech systems, digital banking platforms, payment infrastructure, and AI-enabled applications across Africa. Experienced in software engineering, technical leadership, backend architecture, machine learning systems, and computer science education. Proven ability to explain complex technical concepts, mentor learners, evaluate technical content, and deliver production-grade software solutions using Python, Django, FastAPI, PostgreSQL, AWS, and modern cloud technologies.

Professional Experience

QuickerPay (Douala)

Chief Technology Officer (CTO) | Mar 2025 – Present

- Led the architecture, engineering, and scaling of QuickerPay's fintech ecosystem, including customer and agent mobile applications, payment infrastructure, virtual cards, remittance systems, wallet services, and internal operational platforms.
- Built and managed the company's core backend infrastructure using Django, Django REST Framework (DRF), PostgreSQL, Redis, Celery, Django Channels, and AWS, delivering scalable and highly available financial systems.
- Developed both customer-facing and agent-facing mobile applications using React Native and Expo, implementing secure onboarding, wallet operations, KYC verification, remittance tracking, real-time balance synchronization, and virtual card management.
- Designed and built the internal staff back-office platform using Next.js, TypeScript, and Tailwind CSS, enabling compliance teams and operational staff

to manage KYC reviews, disputes, refunds, fraud monitoring, remittances, customer support, and transaction investigations.

- Architected secure authentication and financial security systems including JWT authentication, encrypted OTP infrastructure, webhook verification, request-signing middleware, CSRF protections, IP whitelisting, RBAC permissions, audit logging, and PCI-aware security controls.
- Built advanced middleware and operational security layers protecting internal financial systems, including fraud monitoring, suspicious activity detection, secure admin routing, rate limiting, API protection, and compliance-focused access controls.
- Led end-to-end integration of Visa and Mastercard issuing systems, including tokenization, issuer APIs, transaction webhooks, settlement reconciliation, BIN sponsor coordination, card lifecycle management, and KYC/AML workflows.
- Engineered resilient payment and remittance processing systems with idempotency protection, asynchronous task orchestration, retry handling, automated agent assignment systems, and failure recovery pipelines, reducing duplicate transaction incidents by approximately 90%.
- Improved platform performance by reducing API latency by approximately 35% and doubling backend throughput through PostgreSQL optimization, Redis caching, query tuning, and asynchronous processing strategies.
- Reduced fraud-related losses by approximately 18% through integration of fraud scoring systems, transaction risk analysis, webhook validation, and dynamic server-side risk controls.
- Built scalable real-time communication systems using Django Channels, WebSockets, Expo Push Notifications, and VAPID-based web push infrastructure supporting instant transaction alerts and operational updates.

- Designed secure AWS cloud infrastructure using EC2, RDS, S3, encrypted object storage, presigned uploads, Dockerized deployments, monitoring systems, and CI/CD pipelines.
- Increased automated test coverage to approximately 85%, reduced payment-impacting incidents by approximately 50%, and improved Mean Time to Recovery (MTTR) through improved observability, monitoring, and engineering standards.

Key Technologies: Django, DRF, PostgreSQL, Redis, Celery, Django Channels, WebSockets, React Native, Expo, Next.js, TypeScript, Tailwind CSS, AWS, Docker, JWT, CI/CD, Visa/Mastercard Issuing

Paysika (Douala)

Senior Backend Developer | Mar 2024 – Nov 2024

- Developed and optimized secure fintech backend systems supporting digital payments, wallet operations, transaction processing, and financial services for users across the African market.
- Built scalable APIs and backend services using Flask and FastAPI, improving platform reliability, transaction consistency, and operational efficiency.
- Designed and implemented a multi-tier referral and rewards system that significantly increased customer engagement and platform adoption.
- Developed advanced transaction filtering, search, and reporting features that improved financial visibility, transaction traceability, and operational workflows.
- Implemented backend optimizations, asynchronous task processing, and caching strategies that improved system performance and scalability.
- Resolved critical production issues, performance bottlenecks, and backend vulnerabilities, improving overall platform reliability and engineering quality.

- Collaborated with cross-functional teams to rapidly deliver new fintech features while maintaining high standards for security, scalability, and maintainability.

Key Technologies: Flask, FastAPI, PostgreSQL, Redis, Celery, REST APIs, Financial Systems

Zeze Health (Yaoundé)

Python Developer | Oct 2023 – Apr 2024

- Built backend systems for a machine-learning-enabled smart X-ray platform designed to improve diagnostic workflows and healthcare delivery efficiency.
- Developed scalable Python backend services supporting AI-assisted medical imaging analysis and intelligent diagnostic processing pipelines.
- Integrated Finite Element Analysis (FEA) methodologies to improve diagnostic modeling precision and imaging accuracy.
- Designed secure healthcare data processing systems while ensuring compliance with healthcare data handling and security standards.
- Optimized backend performance using advanced data-processing techniques and asynchronous workflows.
- Worked closely with machine learning engineers and healthcare professionals to improve platform reliability and analytical accuracy.

Key Technologies: Python, Django, FastAPI, PostgreSQL, Machine Learning Systems, FEA

Eldorado Smart Payment (Abuja)

Backend Developer | Jan 2023 – Mar 2024

- Contributed to the development of a scalable payment gateway and transaction processing infrastructure serving the Nigerian financial ecosystem.

- Participated in implementation work related to the Nigerian 9PSB ecosystem, supporting transaction routing, wallet operations, payment processing, and financial interoperability workflows.
- Developed secure financial APIs, transaction processing services, reconciliation systems, and merchant integration solutions.
- Built asynchronous processing systems using Celery and Redis to support high-volume transaction handling and operational reliability.
- Implemented transaction validation, fraud prevention controls, audit logging, and backend security improvements for financial systems.
- Improved system scalability and backend reliability through database optimization, caching strategies, and infrastructure enhancements.

Key Technologies: Django, DRF, PostgreSQL, Redis, Celery, Docker, Payment Gateways, Financial APIs

Immobis (Yaoundé)

Backend Developer | Jun 2020 – Dec 2022

- Developed and maintained scalable backend systems powering property search, rental management, and real estate services.
- Improved database efficiency and caching mechanisms, reducing average query response times and improving platform responsiveness.
- Built and shipped backend features that improved customer engagement and platform usability.
- Scaled backend infrastructure supporting more than 10,000 active users using Django and PostgreSQL.
- Reduced downtime and improved reliability through monitoring, debugging, and backend optimization initiatives.

Key Technologies: Django, PostgreSQL, Redis, REST APIs

Government Bilingual High School (GBHS) Emana, Yaoundé

Computer Science Teacher | Sep 2019 – Sep 2023

- Taught Computer Science and Information & Communication Technology (ICT) courses to secondary school students.
- Delivered instruction in programming fundamentals, algorithms, databases, computer systems, networking, and digital literacy.
- Developed lesson plans, examinations, practical laboratory exercises, and student assessment materials.
- Mentored students in academic projects, computer competitions, and technology-focused extracurricular activities.
- Managed and supervised computer laboratory sessions while ensuring effective use of educational technology resources.
- Assisted students in developing problem-solving, analytical thinking, and software development skills.
- Collaborated with school administration and fellow educators to improve curriculum delivery and student performance.
- Maintained student performance records and provided academic guidance and mentorship.

Key Technologies & Subjects: Programming Fundamentals, ICT, Algorithms, Databases, Computer Networks, Microsoft Office, Educational Technology

Education

Higher Teacher Training College (ENS Maroua), Cameroon

Bachelor's Degree in Computer Science Education

Graduated: 2019

- Specialized in Computer Science Education and Teaching Methodologies

- Focus areas included Programming, Algorithms, Database Systems, Computer Networks, Software Engineering, and Educational Technology
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Technical Skills

- **Backend & APIs**

Python, Django, Django REST Framework (DRF), FastAPI, Flask, Celery, REST APIs, GraphQL, WebSockets

- **Frontend & Mobile**

React Native, Expo, Next.js, React.js, TypeScript, Tailwind CSS

- **Databases & Storage**

PostgreSQL, MySQL, Redis, MongoDB, Amazon S3

- **Payments & Fintech**

Payment Gateways, Card Issuing (Visa/Mastercard), Wallet Systems, Remittances, Escrow Systems, KYC/AML, PCI-Aware Security

- **Cloud & DevOps**

AWS (EC2, RDS, S3), Docker, Kubernetes, GitHub Actions, CI/CD, Prometheus, Grafana

- **Architecture**

Distributed Systems, Event-Driven Systems, High-Availability Systems, Microservices

- **Leadership**

Technical Leadership, Team Mentorship, Agile/Scrum, System Design, Engineering Strategy

Key Achievements

- Built and scaled fintech systems processing millions of financial transactions across multiple African markets.
- Successfully integrated Visa and Mastercard issuing systems with secure KYC/AML workflows and operational tooling.
- Reduced API latency by approximately 35% and doubled backend throughput through architecture and database optimization.
- Reduced duplicate transaction incidents by approximately 90% through resilient payment processing and idempotency systems.
- Reduced fraud-related losses by approximately 18% through advanced fraud monitoring and risk management infrastructure.
- Led engineering execution across fintech, payment infrastructure, health-tech, and real-time financial platforms.