

Daniel Shogbon, Senior Software Engineer

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LINKS

[GitHub](#)

[Portfolio](#)

EMPLOYMENT HISTORY

Mar 2026 - Present

Founding Engineer

Global

- Built an opensource company, distributed stealth browser automation platform with **100%** test coverage, shipping cross-platform releases (Linux + Windows) via Github CI.
- Made it to **top 5** on Product Hunt launch day.
- Drives all browsers types with multi-protocol support, built in stealth identity and AI natural-language commands, spawning **10000+** live browser instances across a multi-node cluster.
- Built Serverless Fabric — a no-container serverless platform in Go to replace AWS Lambda for browser workloads; bypassed Lambda's 15-minute execution cap, also making it **~80% cheaper**
- Implemented ScyllaDB on the k8s cluster for the wallet service append-heavy transaction ledger, resulting in **~10x write throughput** and **sub-millisecond p99 latency**
- Orchestrated a production Kubernetes deployment across 10 microservices with zero-downtime deploys; separated gRPC and HTTP traffic at the gateway layer to keep inter-service latency low.
- Replaced managed database services with self-hosted ScyllaDB and PostgreSQL on the Kubernetes cluster, cutting recurring infrastructure spend significantly.
- Outperformed browser-use's **~58% WebArena** task success rate by targeting DOM nodes via accessibility tree rather than LLM vision screenshots, reducing hallucination-driven failures.

Tech Stacks: Rust, Go, TypeScript, Axum, Tokio, Tonic, Gin, gRPC, Protocol Buffers, WebDriver BiDi, CDP, MCP, OpenRouter, PostgreSQL, ScyllaDB, Redis, Kubernetes, Docker, GitHub Actions, AWS (EC2, SES, ECR), GCP, Next.js, SvelteKit

Jul 2025 - Present

Open-Source Contributor

Global

- Discovered and proposed a solution for a high impact authentication failure affecting thousands of web automation developers on puppeteer web driver bidi proxy implementation.
- Found a bug affecting the message responses on the bidi protocol. IDs where floats returned rather than the specified uints causing severe issues for statically typed language bindings.
- Found and resolved an issue on the web-driver bidi specification on missing modules in the spec affecting final result output
- Implemented goto/wait-for-navigation in **nodriver**, preventing CDP race conditions on browser startup

Tech Stacks: Puppeteer, NoDriver, WebDriver BiDi, Chrome DevTools Protocol (CDP), JavaScript/TypeScript, Python

Mar 2025 – Oct 2025

Lead Developer, LeadTab

NSW, Australia

- Architected and scaled a distributed data scraping and ingestion platform processing **1M+ records/day**, integrating heterogeneous external systems while maintaining **98%** structured data accuracy across unreliable sources.
- Designed a containerized, horizontally scalable orchestration layer supporting **3,000+** concurrent Docker containers, increasing throughput to **500K+ records/hour** and reducing end-to-end pipeline latency by **72%**.
- Built a high-performance backend (FastAPI, MongoDB, Redis) capable of handling **2M+ requests/minute** with **sub-120ms median latency**, implementing async task queues, caching strategies, and connection pooling for optimal throughput.
- Implemented fault-tolerant recovery systems (circuit breakers, exponential backoff, intelligent retry routing) autonomously resolving **98%** of third-party failures, achieving **99.9%+ system uptime** under sustained load.
- Developed a large-scale behavioral simulation and fingerprint randomization engine (**1,600+** entropy variables) that reduced detection events by **>90%** and enabled stable, high-volume automated session management.
- Designed and shipped a production-grade Next.js/React frontend supporting **10,000+** concurrent users, enabling real-time querying, bulk editing, and high-volume dataset exports while reducing user task completion time by **60%**.

Tech Stacks: NextJS/React, Python, NodeJS, Puppeteer, NoDriver, FastAPI, MongoDB, Docker, Shell, Redis

Sep 2023 — Present

Software Engineer, CredPal (YC W19)

Lagos

- Overhauled the credit card transaction system handling over **N3.5 billion** monthly credit card transactions, significantly reducing calculation errors and customer complaints. This involved robust transaction aggregation, leading to a **92%** reduction in issues.
- Spearheaded the development of a system allowing seamless cross-currency transactions, processing over **N100M+** in the first quarter and expanding user purchasing options by over 100%.
- Engineered a platform for managing **N700M+** in customer investments, streamlining the approval

process and reducing processing time from 48 hours to 10 minutes.

- Orchestrated the development of 6 critical systems (authentication, credit, investment, wallet, card, savings), serving **500K+ active users** with exceptional uptime.
- Built an automated commission system, growing the affiliate network by **300%** and processing **N13M+ in payouts**.
- Improved platform reliability through optimization techniques, resulting in **40%** faster response times and **99.9%** API availability.
- Transformed the cash service, processing over **N800M+ monthly**, into a secure and resilient system. Implemented advanced transaction monitoring, recovering **N100M+** in potential losses. Additionally, set up real-time reconciliation and robust error handling, achieving a 100% success rate in preventing fund losses.

Tech Stacks: PHP/Laravel, VueJS, NextJS/React, MySQL, Python, Django, NumPy, EC2, S3, Lambda, RDS, Coolify, Docker, Kubernetes, GitHub Actions, Argo CD, SonarQube, Datadog

Mar 2017 — Aug 2020

Full Stack Developer, Freelance

Lagos

Scholars Star

- Created and coded `Scholars Star` for a client using the LAMP stack, HTML/CSS, and JavaScript, which yielded a result of 0.89ms in load time for the site and an overall 72% smaller size than most websites.
- Independently wrote the CMS and WYSIWYG from scratch, which enhanced productivity by 79%.
- Attracted 10,000+ users within the first week, receiving positive feedback and recognition online

Techs Reviewer

- Coded Techs Reviewer website for a client using the LAMP stack, HTML/CSS, and JavaScript, which yielded a result of 0.89ms in load time for the site and an overall 72% smaller size than most websites.
- Integrated Drupal to manage content for administrators and employees, which optimized productivity rate to 66%.
- Achieved a 5,076% increase in the user base that generated a lot of money in revenue via AdSense within two months of launch.

Tech Stacks: Linux, Apache, MySQL, PHP, HTML, CSS, JavaScript

PROJECTS

- Engineered and launched a fully-featured video game using Unity Engine and C#, incorporating advanced graphics rendering, physics-based mechanics, and seamless user interactions
- Architected and developed a robust food delivery web platform inspired by Glovo, featuring real-time order tracking, secure payment integration, and an intuitive UI that streamlined the ordering process for customers and delivery partners
- Pioneered an innovative automation framework that achieved a 99% success rate in navigating security systems through sophisticated human behavior emulation and device fingerprinting, resulting in a 95% match to authentic user patterns. Implemented advanced algorithms to continuously improve behavioral authenticity
- Developed a lightweight WebDriver application framework built on the **WebDriver BiDi protocol**, supporting bidirectional event streaming, async execution pipelines, and extensible command routing for advanced browser instrumentation.

EDUCATION

Mar 2023

BSc, AAUA

Ondo

SKILLS

PHP/Laravel

NodeJS/JavaScript/Typescript

React/React Native/Expo/Vue.js/Tailwind

MongoDB/PostgreSQL/MySQL/Redis

Python/Django/Selenium

C/C++

Kubernetes/Docker/GitHub Actions/Argo CD

Rust/Golang – Axum/Gin