Daniel Jonathan

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SUMMARY

Full Stack Software Engineer with 3+ years of experience specializing in building scalable and secure applications in TypeScript, Next.js, and NestJS. Passionate about implementing robust systems with Rust, practicing Test Driven Development (TDD), and leveraging modern frameworks to solve complex problems. Proven ability to lead development on projects and deliver efficient, user centric solutions.

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript, Rust, SQL
- **Frontend:** Next.js, React, Three.js, Tailwind CSS, HTML5, CSS3
- **Backend:** Node.js, NestJS, Express, GraphQL, REST APIs
- **Blockchain:** Solana, Web3.js, Anchor Framework, Solidity
- **DevOps & Tools:** Git, Docker, GitHub Actions, Vercel, Linux, Jest, Mocha
- **Databases:** PostgreSQL, MongoDB, Sqlite, Redis
- **Methodologies:** TDD, Clean Architecture, Agile/Scrum, CI/CD

WORK EXPERIENCE

Lead Developer (Contract) | SonasDigital | Lagos, Nigeria (Remote) | *Mar 2025 – Jun 2025*

- Architected and developed the company's full stack web platform using Next.js and NestJS, reducing initial page load time by 20%.
- Engineered and maintained RESTful APIs handling real time data processing, integrated with PostgreSQL to ensure data consistency and reliability.
- Implemented Test Driven Development (TDD) with Jest, achieving 90%+ test coverage and significantly reducing production bugs.
- Led end to end feature development from design and database modeling to deployment using modern CI/CD practices.

Lead Backend Engineer | Edunovia | Remote | *July 2025 – Present*

- Architecting and developing the core backend services for a school management platform using **TypeScript, Express.js, and PostgreSQL**.

- Designing and implementing secure **RESTful APIs** for features including user authentication, student record management, and academic reporting.

- Optimizing database queries and implementing caching strategies, improving API response times by **15%**.

- Establishing CI/CD pipelines using **GitHub Actions** to automate testing and deployment processes.

- Mentoring junior developers and conducting code reviews to enforce **code quality, TDD, and clean architecture principles**.

Production Manager | DR. CJ GLOBAL LIMITED | Delta, Nigeria | *Jan 2022 – Dec 2024*
- Automated manual reporting and inventory tracking using custom Node.js scripts, cutting process time by 30% and minimizing human error.
- Managed cross functional teams and optimized production workflows, resulting in a 6% increase in quarterly revenue.

PROJECTS

1. Seer: Solana IDL Visualizer Tool

- **Tech:** NestJS, Next.js, TypeScript, React Flow, @solana/web3.js, @coral-xyz/anchor

- **GitHub:** https://github.com/danieljofficial/seer

- A developer tool that parses Solana program IDLs to automatically generate an interactive schema visualization, simplifying program understanding and development.

  o Engineered a robust NestJS backend to fetch and parse anchor IDLs from user input or directly from the Solana blockchain.

  o Designed a dynamic visualization frontend using React Flow to render program accounts, instructions, and data structures as an interactive node graph.

  o Solved a complex data parsing and UI rendering challenge, providing clear value to Solana developers in a crowded ecosystem.

2. Edunovia: School Management System

- **Tech:** TypeScript, Express.js, Node.js, PostgreSQL, REST API

- **GitHub:** https://github.com/danieljofficial/Edunovia

- A system streamlining academic operations for schools, including result uploads, student activity tracking, and parent performance monitoring.

- Developed secure RESTful APIs with Express.js and TypeScript, handling complex data relationships for students, courses, academic sessions and results.
- Designed and implemented a normalized PostgreSQL database schema to ensure data integrity and efficient querying for academic records.
- Architected the backend to support role-based access control (admin, teacher, parent), enabling tailored views and functionalities.

3. Proof of Contribution DAO Tracker

- **Tech:** Solana, Anchor (Rust), Next.js, TypeScript, Tailwind CSS
- **LiveDemo:** https://daopocclient.vercel.app/
- **GitHub:** https://github.com/danieljofficial/ackee-program-danieljofficial
- A decentralized application for tracking and verifying member contributions within a Decentralized Autonomous Organization (DAO) on the Solana blockchain.
  - Implemented Solana programs (smart contracts) using Anchor framework to securely record and validate member contributions on chain.
  - Built a responsive Next.js frontend to interact with the Solana wallet adapter and display contribution metrics.
  - Submitted as a capstone project for a selective Web3 development course, demonstrating proficiency in blockchain development lifecycle.

4. Ichimonji: Advanced File Renaming Tool

- **Tech:** Rust
- **GitHub:** https://github.com/danieljofficial/ichimonji
- A high performance, command line utility for bulk and pattern-based file renaming, built to handle complex batch operations efficiently.
  - Developed a complex CLI application in Rust, leveraging the language's safety and performance for reliable filesystem manipulation.
  - Implemented custom parsing logic for user defined renaming patterns and rules, handling edge cases and errors gracefully.
  - Showcases deep understanding of Rust concepts like ownership, error handling, and crates.io library integration.

EDUCATION

Ackee School of Solana
Graduated: September 2025

- Completed an intensive program in **advanced Solana blockchain development**, specializing in smart contract programming and decentralized application architecture.

- Mastered core technologies including the **Anchor framework**, **Rust**, and on chain program testing and deployment.

- Designed and deployed a **Proof-of-Contribution decentralized application** as a capstone project, demonstrating end to end development of a functional decentralized application.

Bachelor of Engineering (B.Eng) in Production Engineering | *Second Class Honors, Upper Division*
University of Benin | Benin City, Nigeria | LINK

- Awarded a 2:1 honors degree, placing within the top 20% of the academic cohort for demonstrated excellence in engineering principles and project work.
- Relevant Coursework: Systems Engineering, Operations Management, Quality Control, Automation.