Daniel Brai

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SUMMARY

An experienced polyglot software engineer, specializing in building reliable backend systems and tools that power applications.

WORK EXPERIENCE

Software Engineer   August 2024 – Present
Tribapay   *Lagos, Nigeria*
- Architected and maintained microservice applications in Node.js to power savings, investment, and transaction aggregation features serving thousands of business and consumer accounts
- Improved fraud detection techniques and implemented new features on internal business platforms using Express, TypeScript, and PostgreSQL to streamline operations and ensure regulatory compliance
- Developed a dynamic data store system that allows AI agents to store and query information in multiple languages, enabling intelligent context-aware responses and knowledge base that processes unstructured documents allowing AI agents to extract relevant information to complete complex tasks
- Integrated enterprise communication platforms (WhatsApp, Telegram, Instagram, Google Workspace, Slack, Freshdesk, Email and so on) through custom MCP tools in Node.js and Python that connect AI agents to real-world workflows
- Built an agentic workflow execution engine in Python that acts like an MCP server that orchestrates multiple tools and APIs, enabling AI systems to autonomously complete multi-step tasks and implemented Stripe payment integration to enable international transactions

Lead Software Engineer   April 2024 – March 2025
Beetle Ltd   *Ibadan, Nigeria*
- Architected and designed the complete CI/CD pipeline infrastructure via Github actions to automate deployment workflows and ensure reliable software delivery
- Developed platform APIs serving both consumer on the web, mobile and for business requirements using Nest.js and FastAPI
- Provisioned and managed Azure cloud infrastructure including App Service, Azure CDN, Blob Storage, Key Vault, Container Registry, and Azure Kubernetes Service to ensure scalable and secure operations
- Led regular meetings to discuss architecture decisions, sprint planning, and technical challenges

Backend Developer   October 2023 – January 2025
Cartolinks Solutions Limited   *Lagos, Nigeria*
- Contributed to various applications using Golang and TypeScript to deliver reporting, prediction, and analytics capabilities
- Developed a unified Music API Platform that aggregates content from Spotify, YouTube Music, and other vendors using Nest.js, PostgreSQL, Docker, and AWS
- Built file processing pipelines using FastAPI and AWS to handle document, audio and video transformations, enabling generative AI features in production applications

PROJECTS

David
- Built an AI-powered personal assistant using FastAPI and React that helps users manage tasks, schedules, and information through text interactions
- Implemented various MCP integrations using FastMCP for tools on the agent for personal assistant

EDUCATION

University of Ibadan   Oyo, Nigeria
Bachelor of Science in Computer Science   *June 2019 – February 2025*

SKILLS

Programming Languages: Typescript, Python, Ruby, Golang, Elixir, SQL (PostgreSQL, SQLite)
Frameworks: Express, Nest.js, FastAPI, Phoenix, Ruby on Rails
Tools: Docker, Bash, Terraform, Kubernetes, AWS, Azure