

ELLIOT OTOIJAGHA

Software Engineer · Benin City, Nigeria

GitHub: github.com/BuiltByElly · LinkedIn: linkedin.com/in/elliott-otoijagha · X: x.com/BuiltByElly

SUMMARY

Software Engineer and Computer Science student with hands-on experience designing and building full-stack software, backend systems, developer tools, and web applications. Strong foundation in Python and TypeScript with practical experience designing APIs, authentication systems, frontend applications, and CLI tools. Interested in building reliable software, understanding how systems work, and solving engineering problems from first principles.

TECHNICAL SKILLS

Languages: Python, TypeScript

Frontend: React, Next.js

Backend: FastAPI, REST APIs, GraphQL

Engineering: API Design, Backend Development, Frontend Development, Developer Tooling, CLI Development, Desktop Application Development

Tools: Git, GitHub

PROJECTS

FastAuth — Authentication Library for FastAPI

GitHub: github.com/BuiltByElly/FastAuth

Built an asynchronous authentication library for FastAPI supporting session, JWT, OIDC, and OAuth2 authentication strategies.

Designed a modular architecture with pluggable adapters, configurable authentication strategies, event hooks, and framework-native FastAPI dependencies.

Implemented security features including rotating refresh tokens, token reuse detection, CSRF state protection for OIDC, secure cookie configuration, and configurable rate limiting.

Added support for in-memory, database, and Redis-backed rate limiting with configuration validation and secure production defaults.

Published the library as `builtbyelly-fastauth` with documentation, examples, architecture documentation, automated tests, and GitHub Actions CI.

Primely — Full-Stack URL Shortener

GitHub: github.com/BuiltByElly/Primely

Built a full-stack URL shortener with malware scanning, click analytics, authentication, and link management.

Designed a background processing workflow using FastAPI lifespan and APScheduler to batch-scan URLs through the Google Safe Browsing API.

Implemented asynchronous click tracking that captures country and browser information without adding latency to URL redirects.

Built the backend with FastAPI, SQLAlchemy, and PostgreSQL and the frontend with React, TanStack Start, TanStack Query, and Zustand.

Added automated backend testing with Pytest and deployed the application across Vercel, Render, and Neon.

Anipact — Anime Discovery Platform

GitHub: github.com/BuiltByElly/Anipact

Built a responsive anime discovery platform using Next.js and TypeScript, integrating multiple external data sources.

Integrated the AniList GraphQL API for anime discovery, search, seasonal content, trending titles, and detailed anime information.

Built an RSS-based news aggregation system using Anime News Network content and added locally persisted watchlists.

Used TanStack Query and Zustand to manage server and client state while keeping the application responsive across devices.

EDUCATION

University of Benin, Nigeria

B.Sc. Computer Science — 300 Level · Expected Graduation: 2028