

Kenneth Torcuator

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PROFESSIONAL EXPERIENCE

Software Engineer (Contract / Independent)

February 2026 — Present

Full Stack Engineer

ERUSCENT (EdTech Marketplace) | *Next.js, TypeScript, Tailwind CSS, Java, Spring Boot, PostgreSQL*

- Engineered a multi-tenant SaaS platform in under 6 weeks to combat an **85% cohort churn rate**, deploying an 'early-warning' analytics dashboard that secured official approval for a 3-department rollout.
- Executed a closed beta launch restricted to a single engineering cohort, capturing a **~70% adoption rate** and achieving a 66% booking fill rate to successfully validate the peer-to-peer marketplace model.
- Configured a **GitHub Actions CI/CD** pipeline to automate Maven builds and security audits, executing a suite of unit and database-backed Spring integration tests via Dockerized PostgreSQL on every commit to reduce deployment regression risks.
- Architected **4-tier RBAC** (Student -> Tutor -> Admin -> Super Admin) with service-layer query isolation, ensuring strict per-department data boundaries engineered to support multi-university expansion.
- Remediated **18 vulnerabilities** (2 Critical, 6 High) across JWT, rate limiting, CORS, and CSP following a full OWASP Top 10 audit.
- Migrated manual JWT authentication to a modern Clerk architecture, eliminating **~1,400 lines** of custom React forms and reducing backend auth overhead by **~40%**, while implementing a hybrid domain-verification gate for secure, exclusive campus access.

AI Product Engineer

RESUMAXXING (AI SaaS) | *Next.js, TypeScript, Tailwind CSS, FastAPI, Python, MySQL, Capacitor*

- Developed an AI SaaS platform using a CSR architecture and the OpenAI API, to generate professionally tailored resumes in **<10s**.
- Implemented **zero-downtime** deployments on Railway, using health-gated Alembic migrations to block faulty schema changes.
- Engineered and launched a live product release, integrating **Lemon Squeezy's API** and webhooks to handle secure checkout, subscription management, and global tax compliance.

Software Engineer

LEONEXIA | *Next.js, React, TypeScript, Tailwind CSS*

- Refactored **1,500+** lines of inherited, monolithic React code into a modular component library, drastically improving maintainability and achieving an **88%** reduction in core page file sizes.
- Built custom UI components using **TypeScript**, accurately translating UI/UX designs and making them reusable across multiple pages.
- Decoupled hardcoded content into centralized data files, streamlining cross-functional workflows without new code deployments.

TECHNICAL PROJECTS

Quiz Master 3000

July 2025 — Dec 2025

Java, Spring Boot, TiDB Cloud, Vercel, Render, JavaScript

- Benchmarked backend performance, achieving **~3.8 ms** warm execution time for 5-question quiz retrieval using Hibernate + MySQL.
- Refactored hardcoded quiz data with scalable MySQL-backed architecture, enabling dynamic content management for **800+** questions across 4 quiz types without requiring code changes.

Student Profile Management

Oct 2025 — Nov 2025

Java, Hibernate ORM, MySQL, Maven

- Benchmarked Hibernate session reuse and first-level caching, achieving up to **~80x** faster repeated reads for identical entity fetches.
- Conducted performance benchmarks on read operations to measure transaction latency, identifying SessionFactory initialization as a major startup bottleneck (**~3s**).

TECHNICAL SKILLS

Languages: Java | Python | TypeScript | JavaScript | SQL (PostgreSQL, MySQL)

Frameworks & Libraries: Spring Boot | Spring Security | Spring Data JPA | FastAPI | SQLAlchemy | Alembic | Hibernate | React | Next.js

Cloud, DevOps & Tools: Vercel | Railway | Render | GitHub Actions | Cloudflare | Git | Maven | Postman | Swagger API | OpenAI API

EDUCATION

BS in Computer Engineering

2024 — Present

National University | GPA: 3.41 | SM Foundation Scholar

Metro Manila, Philippines