TETSOPGUIM KEFOUEG FRANK PARKER

Full-Stack Software Engineer | AI Integration | Backend Architecture

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer with 3.5+ years of experience building production-ready web systems across frontend, backend, and AI integration. Shipped AI-powered features using Anthropic Claude, OpenAI GPT, and AssemblyAI into live educational platforms serving students and teachers. Designed and deployed complete SaaS products end-to-end — from architecture and database schema to deployment, DNS, and client delivery. Comfortable in agile teams and as an independent contributor. Open to remote, hybrid, and on-site opportunities globally.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript (ES6+), PHP, Python, HTML5, CSS3
Frontend	React.js, Next.js (App Router, SSR/SSG), Tailwind CSS, Framer Motion, React Hook Form, Redux
Backend	Node.js, Express.js, Laravel, Prisma ORM, REST APIs, WebSockets (Pusher)
AI & Integrations	Anthropic Claude, OpenAI GPT, AssemblyAI, Google Cloud Speech & Vision, Tesseract.js, FFmpeg
Databases	PostgreSQL, MySQL, MongoDB, Redis, Prisma
Cloud & DevOps	Vercel, Cloudflare R2 (S3-compatible), Docker, VPS Deployment, DNS Configuration
Tools	Git, GitHub, Jira, Trello, Notion, Jest, Vitest, Agile/Scrum, vs code, cursorAI

PROFESSIONAL EXPERIENCE

Livquiz Ltd   Sep 2023 – May 2025
Full-Stack Developer (Remote)

                                                                                                      Toronto, Canada

Livquiz is an interactive educational platform serving students, teachers, and anonymous users. Features include live quiz sessions, multiple question types, AI-generated content, and community spaces.

- Engineered a separate AI content-generation backend with 13 service modules — abstracting Anthropic Claude and OpenAI GPT behind a unified interface with intelligent model selection and exponential-backoff retry logic (up to 3 attempts), enabling provider switching via config without code changes.
- Built a multi-modal content ingestion pipeline supporting 6 input modes: topic prompting, custom text, document uploads (PDF, DOCX, TXT, RTF), image OCR, audio transcription, and external media URLs across multiple platforms.
- Implemented parallel batch processing for large quiz generation requests — splitting requests into optimally-sized batches (3–5 questions based on complexity) processed concurrently via Promise.all, significantly reducing latency for 8+ question sets.
- Designed subscription-aware usage-limit middleware enforcing per-plan AI generation quotas across 6 tiers (Free → Enterprise) with structured 429 responses and upgrade guidance.

- Applied production security patterns: Helmet HTTP headers, IP-aware rate limiting (100 req/15 min with x-forwarded-for proxy support), 10-minute server timeouts for long-running media jobs, and global error handling.
- Built responsive, pixel-perfect interfaces using React.js and Next.js, implementing SSR and SSG strategies to improve Core Web Vitals and SEO performance across the platform.
- Collaborated in a remote agile team — participated in sprint planning, code reviews, and continuous delivery across frontend and backend streams.

CoachMe (Mandara Fitness) — Freelance
Full-Stack Developer (Solo, Client Project)

2024 – 2025
Remote

Full-stack SaaS platform connecting certified sport coaches with clients, featuring multi-role dashboards, real-time messaging, coach verification, and internationalised UI. Delivered end-to-end: architecture, development, deployment, domain purchase, and DNS configuration.

- Architected a multi-role system (Admin / Coach / Client) with custom JWT-based RBAC, bcrypt password hashing, and httpOnly cookie session management — giving explicit control over token lifecycle and middleware behaviour without third-party auth abstractions.
- Built a coach verification workflow — coaches submit profile, certifications, and media; admins approve or reject with comments logged in an AdminReview audit trail.
- Implemented real-time 1:1 messaging via Pusher WebSocket channels with read-receipt tracking at the database level, keeping infrastructure lean without managing a custom WebSocket server.
- Optimised PostgreSQL schema with Prisma ORM — added strategic @@index annotations on high-frequency query keys (chatId, senderId, coachId, ownerId) reducing query time from seconds to milliseconds at scale.
- Integrated Cloudflare R2 (S3-compatible) for secure media storage (profile images, certificates, training videos) using pre-signed URLs via AWS SDK — ensuring secure yet accessible file delivery.
- Delivered a fully internationalised interface (English & French) via next-intl with locale-based routing, and applied Upstash Redis rate limiting across critical API endpoints.

Levegi Sarl
Full-Stack Developer — Internship

Feb 2023 – Jul 2023
Douala, Cameroon

- Contributed to Ensemble.cm — a web platform for blog publishing, user interaction, and job listings — building the admin dashboard, role-based access control, secure authentication, and user/content management.
- Developed the Trip Management System REST API backend using Laravel: designed endpoints for trip creation, updates, and user management with authentication, data validation, and role-based access control.
- Participated in scrum ceremonies and sprint planning, gaining practical experience in agile workflows and cross-functional team collaboration.

KEY PROJECTS

AI Educational Content Generation Backend — *Node.js · TypeScript · Express · Anthropic Claude · OpenAI GPT · AssemblyAI · FFmpeg · Tesseract.js*
- Standalone REST API backend generating flashcards and quizzes from 6 input modes across multiple platforms — multi-provider AI abstraction, parallel batch processing, system prompt caching, and 6-tier subscription enforcement.
- 13 service modules · 6 quiz question types · 6 subscription tiers · multiple supported media platforms

CoachMe — Fitness Coaching SaaS Platform — *Next.js 16 · TypeScript · PostgreSQL · Prisma · Pusher · Cloudflare R2 · Redis · Tailwind CSS*
- Production-deployed full-stack platform with multi-role auth, real-time messaging, coach verification workflow, secure media management, and full i18n (EN/FR). Owned the complete lifecycle from requirements to live deployment.

- Live: https://www.coachme-by-ecotofitness.com/ Delivered to client with domain, DNS, and hosting fully configured end-to-end.

Ensemble.cm — Social & Professional Platform — *Laravel · MySQL · JavaScript*
- Web platform for blog publishing, user interaction, and job applications — built during Levegi internship. Admin dashboard, role-based access, and secure authentication.
- Live: https://ensemble.cm

EDUCATION

Institut Universitaire des Grandes Écoles des Tropiques (IUGET)   2023 – 2024
Bachelor of Technology (B. Tech) — Software Engineering   Douala, Cameroon

Institut Universitaire des Grandes Écoles des Tropiques (IUGET)   2020 – 2022
Higher National Diploma (HND) — Software Engineering   Douala, Cameroon

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LANGUAGES & SOFT SKILLS

English (Proficient) · French (Fluent)

Problem Solving · Critical Thinking · Communication · Adaptability · Fast Learning