

Emir Çetinkaya

Senior Full-Stack Engineer (MSc) | 15+ Years Experience

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PROFESSIONAL SUMMARY

Senior Full-Stack Engineer with over 15 years of experience delivering robust web systems. I have independently managed 40+ projects for diverse clients (primarily US & Canada), ranging from scalable SaaS platforms to custom internal tools. I combine architectural knowledge with pragmatic engineering, focusing on system stability and resource efficiency.

TECHNICAL SKILLS

- **Languages:** Node.js, JavaScript/TypeScript, Python, PHP, SQL.
- **Frontend:** React, CSS Modules, Sass, HTML5 (Local-First/PWA).
- **Backend & Data:** PostgreSQL, Redis, MongoDB, SQLite (Multi-tenant), REST APIs.
- **Infrastructure:** Docker, Linux (Debian/Ubuntu), Nginx, AWS (S3/Route53), GCP (Compute/Cloud Run), CI/CD.
- **Specializations:** System Architecture & Design, LLM/Agent Workflows, Application Security, Performance Optimization.

PROFESSIONAL EXPERIENCE

Independent Senior Developer & Technical Consultant | Remote

2009 - Present

Acting as a primary technical partner for over 45 clients (primarily US & Canada).

- **End-to-End Delivery:** Directed the end-to-end product life-cycle, from architecture to deployment of complex web applications.
- **Client Stability:** Maintained long-term relationships (1-2 years) with key clients, handling feature growth and maintenance.
- **Highlight:** Architected a “Hosting Manager” SaaS integrated with **AWS Route53** and Namecheap APIs. Implemented a **sliding-window encryption system** (multi-party authorization) to minimize key exposure and managed secure **Docker** deployments via a custom Traefik stack.

Stealth SaaS Startup | Senior Full-Stack Engineer | Remote

2024 - 2025

Architected a high-throughput multi-tenant platform for generating and managing large-scale digital assets for a private client.

- **Complex Frontend Architecture:** Built a **React-based “Design Studio”** (Vite/Mantine) featuring drag-and-drop layer composition, template management, and real-time visual previews of generative rules.
- **Event-Driven Backend:** Designed an asynchronous Node.js engine using **Redis (BullMQ)** to decouple resource-intensive tasks, enabling the system to process 10k+ assets without blocking the main thread.
- **Data & Storage Strategy:** Implemented a **multi-tenant SQLite architecture** for strict data isolation and engineered a fault-tolerant batching system to handle high-volume uploads to distributed storage.
- **Infrastructure:** Deployed and optimized the system on bare-metal VPS using **PM2 and Nginx**, ensuring efficient resource usage under high concurrency.

Core Contributor & Developer | NodeBB Inc. | Remote

2020 - 2023

Worked directly with the core team on *NodeBB*, a modern Node.js forum software used by high-traffic communities.

- **Engagement:** Full-time core team member (2021); retained as a Technical Consultant on a project basis (2022-2023).
- **Collaboration:** Coordinated with maintainers to review code and discuss architectural changes. Developed core features and official plugins, ensuring backward compatibility for the **open-source** platform.
- **Product Stability:** Improved the stability of the hosted SaaS platform by resolving critical technical debt in the UI and notification systems.

EDUCATION

MSc in Computer Science | Maltepe University

2014 - 2016

- **Focus:** Intelligent Systems & Data Science (AI, Computer Vision, Social Network Analysis).