Çağatay Karahan

Senior Full-Stack Engineer · Backend Architecture, AI/LLM Systems & Technical Leadership

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Senior full-stack software engineer and technical lead with 10+ years of experience shipping ROI-focused production systems across Ruby on Rails, Node.js, React, Next.js, TypeScript, and AWS. Proven track record cutting monthly LLM billing costs 80% across 250,000+ users, slashing weekly client reporting from 8+ hours to 10 minutes (+45% client satisfaction) while leading 30+ developers, automating E-Government signing (-85% time) and 50,000-user tournament ops (-70% time), powering $2M/month international payments, and running 10M+ daily SMS queues with zero-downtime 50M+ record migrations.

KEY ENGINEERING IMPACT

-80%
monthly LLM billing (250K+ users)
Cut output errors 45% & doc lookup time 60% via GPT/Claude & Pinecone RAG at 3Pounds.

8h+ -> 10m
client reporting · +45% CSAT
Led 30+ devs at CEON Metrics (TRY 2M+ budget, 6/6 releases on time, 7 Google feeds unified).

$2M/mo
payments · +30% SMS ops
Grew global Invemo clients ($2M/mo) + 10M+ daily SMS, 50M+ 0-downtime move & up to $20K freelance.

-85% / -70%
signing & tournament ops time
ANKAKEP E-Gov (-85% signing), League Factory (-70% ops, 50K users) & 5K+/day relief Discord bot.

TECHNICAL SKILLS

Backend & Languages: Ruby on Rails, Ruby, ActiveRecord, Node.js, TypeScript, JavaScript, Python, REST API Architecture

Frontend & Product: React, Next.js, Interactive & Live Builder UIs, Web Accessibility & Performance

Data, Queues & Messaging: PostgreSQL, MySQL, MongoDB, Redis, RabbitMQ, Queue-Based Processing, Schema-Based Data Normalization

AI & LLM Engineering: GPT & Claude API Integration, RAG Pipelines, Embeddings & Vector Search (Pinecone), Structured Output Guardrails, LLM Evaluation Harnesses

Infrastructure & Leadership: AWS, Docker, Cloudflare, CI/CD & Automation, Technical Leadership & Mentoring, System Scalability & Reliability

SOFTWARE ENGINEERING EXPERIENCE

3Pounds - Full Stack Engineer · Remote, Türkiye Aug 2024-Mar 2026

- Shipped GPT and Claude API integrations into a Ruby on Rails and React stack via REST APIs and background job pipelines, serving 250,000+ users.
- Built Retrieval-Augmented Generation (RAG) pipelines over unstructured enterprise documents (PDFs, docs, FAQs) using embeddings and Pinecone vector search on AWS, cutting manual document lookup time by 60%.
- Reduced malformed LLM output errors by 45% through JSON Schema structured output validation and guardrails, and cut monthly LLM billing costs by 80% via prompt optimization, caching, and cross-provider model routing.
- Built a pre-release LLM evaluation harness to score output quality and catch regressions before production rollout.

3Pounds - Ruby on Rails Engineer Sep 2023-Aug 2024

- Delivered backend Ruby on Rails and ActiveRecord features supporting interactive React application workflows and early LLM integrations.
- Improved frontend accessibility and codebase maintainability while mentoring junior frontend and backend developers.

CEON Metrics - R&D Manager · Remote Sep 2020-Sep 2023

- Led 30+ developers across architecture, sprint execution, and release management, shipping six major product releases on time and within a TRY 2M+ budget over three years.
- Architected a React and Node.js analytics hub unifying seven Google data sources (Ads, Analytics, and five others) via schema-based normalization-slashing weekly manual reporting from 8+ hours per client down to 10 minutes.
- Improved report accuracy and health across daily, weekly, and monthly client dashboards, driving 45%+ higher client satisfaction.

Invemo, LLC - Ruby on Rails Developer · Remote Aug 2020-Nov 2020

- Integrated secure payment flows supporting $2M/month in transactions alongside medical data protection controls, helping the platform expand and acquire more international clients.
- Delivered patient-doctor matching, treatment proposal workflows, and secure sharing for privacy-sensitive medical files (MRI scans and diagnostic test results).

Fiverr and Upwork - Freelance Consultant · Remote Aug 2019-Jul 2020

- Generated up to $20,000 USD delivering full-stack web applications, technical scoping, architecture, and independent release schedules for international clients using React, Next.js, and Ruby on Rails.

Şahin Haberleşme İletişim Hizmetleri - Full Stack Developer · On-site, İzmir Mar 2018–Jul 2019

- Architected an SMS distribution and queue-processing system handling 10M+ messages daily integrated with Türkiye's three major GSM carriers (Turkcell, Türk Telekom, and Vodafone).
- Executed a zero-downtime, zero-data-loss migration of 50M+ SMS and user records from MySQL to MongoDB.
- Built a customer and usage monitoring CMS that improved operational efficiency by 30%.

ANKAKEP A.Ş. - Back-end Developer · On-site, Türkiye Sep 2016–Oct 2017

- Cut manual document signing time by 85% by building a Ruby on Rails e-signature platform and REST API integrated with Türkiye's E-Government system that automated invoice and document workflows.
- Developed a custom client CMS with role-based access control (RBAC) managing enterprise signature workflows and auditability.

League Factory - Back End Developer · Türkiye Oct 2015–Apr 2016

- Automated player check-ins, brackets, and match reporting with Node.js and RabbitMQ queues-saving 70% of tournament ops time across 50+ hosted events and freeing the team to secure more sponsors and larger prize pools.
- Scaled backend tournament orchestration to serve 50,000 registered players and sustain 5,000 concurrent users daily.

OPEN SOURCE & PUBLIC TECHNICAL PROJECTS

Rito - Ruby Client for the Riot Games API (GitHub · RubyGems): One unified Ruby gem covering League of Legends, VALORANT, TFT, Legends of Runeterra, Riftbound, and Riot Sign On (RSO), engineered with header-driven adaptive rate limiting and frozen typed models.

Discord IT Yardım Bot (GitHub): Community-built Node.js Discord bot that automated 5,000+ daily FAQ responses and moderation utilities across a 15,000+ member crisis relief server.

Screenshot (Open Source Contributor) (GitHub): Open-source React and Web Clipboard API contributions streamlining background management for developer and designer screenshots.

kodbilen.com - Dual-Career Portfolio Platform (kodbilen.com): Build-time validated content layer powering statically prerendered event case studies, engineering architecture visuals, and two synchronized A4 PDF resumes with zero runtime database.

Full engineering portfolio & system architectures: https://kodbilen.com/projects

SUPPORTING OPERATIONS & CROSS-FUNCTIONAL LEADERSHIP

ESL - Digital Community Manager (Oct 2013–Sep 2015): Co-organized 40 weekly ESL Go4LoL Türkiye tournaments (15+ staff; MSI Türkiye, Intel, Riot Games Türkiye), growing concurrent viewership 11x+ (30 -> 350+) and cutting weekly prep time 60%+ via reusable playbooks.

LOCATION, RELOCATION & LANGUAGES

Location: Currently based in Ho Chi Minh City, Vietnam. | **Relocation:** Willing to relocate internationally; employer sponsorship required.
Regional familiarity: Personal travel in APAC; extensive live event operations across Türkiye. | **Languages:** Turkish (native), English (native), Japanese (N5).