

Emre Can Çorapçı

emrecancorapci@gmail.com | mrcn.tr | github.com/emrecancorapci | linkedin.com/emrecancorapci

Full-stack / back-end developer focused on Node.js, TypeScript, and Rust. Has knowledge across system programming, backend architecture, database design, frontend integration, and Linux deployments. Built a Rust HTTP framework with 16k+ downloads on crates.io and shipped production systems end to end.

Experience

Back-End Developer, Nohut Akademi (E-Learning Providers) – Istanbul, TR Feb 2025 – Mar 2026

- Designed and re-engineered an automated web scraping system, reducing data processing time by 80%.
- Built a high-throughput quiz and progress tracking system; optimized PostgreSQL and MongoDB data insertion layers to handle high-concurrency user activity.
- Enhanced system reliability by restructuring complex dual database queries, implementing Redis caching layers, and enforcing strict, type-safe relational integrity constraints.

Software Developer (Part-Time Freelance), Kapeks (Engineering Solutions) – Istanbul, TR Dec 2025 – Feb 2026

- Developed a .NET Windows desktop automation application utilizing low-level Win32 system hooks to record and replay precise user mouse and keyboard inputs
- Engineered a full-featured Rich Text Editor in WPF/XAML supporting dynamic variables, tables, and images support
- Built a custom OpenXML translation layer to support native .docx imports and exports

Full-Stack Web Developer (Part-Time Freelance), Kocbizz (Coaching Platform) – Rize, TR Sept 2025 – Dec 2025

- Designed and deployed a mentoring e-commerce platform from scratch, featuring modular backend architecture, secure authentication, Redis caching, rate limiting, and PayTR payment integration
- Developed a responsive frontend using React, Apollo Client, Zustand, and Tailwind CSS featuring performance optimization techniques (code-splitting) to streamline distinct student and mentor user flows
- Managed production infrastructure on Ubuntu using PM2 and automated deployment pipeline using git and shell

Full-Stack Web Developer (Full-Time Freelance), Tetra (Environmental Services) – Izmir, TR July 2024 – Sept 2024

- Built a fault-tolerant, automated data sync system between distributed servers using cron jobs and webhooks
- Added testing with Supertest and Nock and deployed the system to Ubuntu with nginx and PM2

Full-Stack Developer (Internship), Turkcell (Telecommunication Services) – Istanbul, TR June 2022 – Sept 2022

- Developed enterprise applications with .NET applying DDD principles, layered architecture, and domain modeling

Projects

Krustie mrcn.tr/projects/krustie

- Published a Rust HTTP back-end framework from the TCP layer up featuring a custom request parser, response builder, routing engine, test utilities, documentation and integration full integration test coverage
- Implemented dynamic routing with query/parameter support, middleware pipeline, and built-in features for gzip compression, rate limiting, and static file serving

Redis Typescript/Rust Clone mrcn.tr/projects/redis-clone

- Built redis compatible server implementing core commands (GET, SET, PING) and RESPv2 protocol parser.

Skills

Programming Languages: TypeScript, Rust, C#, SQL, Bash

Back-End: Node.js, Express, Fastify, .NET, GraphQL, REST APIs

Front-End: React, Next.js, Astro, TailwindCSS, Tanstack Query, Apollo Client

Databases: PostgreSQL, MongoDB, Redis, SQLite, Drizzle ORM, Sequelize

DevOps and Testing: Docker, Kubernetes, Nginx, PM2, Vitest, Linux (Debian/Fedora/Arch)

Languages: Turkish (Native), English (Professional Working Proficiency)

Education

Karadeniz Technical University – BS in Electrical and Electronics Engineering

Expected July 2026