

Kürşat Akıncı

Çankaya/Ankara, Turkey

kursataknc06@gmail.com

LinkedIn/kursatakinci

GitHub/kursataknc

kursataknc.dev

+90 533 303 46 35

EDUCATION

- **Middle East Technical University** *February 2026*
B.Sc. in Mathematics Ankara, Turkey
 - **Optimization:** Applied stochastic modeling and mathematical optimization techniques to analyze bottlenecks and design highly efficient, deterministic system architectures.
 - **Algorithms and Data Structures** – **Graph Theory**
 - **Probability Theory** – **Mathematical Aspects of Cryptography**

EXPERIENCE

- **Freelance** *July 2024 – Present*
Backend & Systems Developer Remote
 - Delivered full-stack production web applications (Next.js, TypeScript), ensuring high availability and scalable server-side performance.
 - Orchestrated complete deployment lifecycles, managing VPS provisioning, containerized workloads (Docker), and reverse proxy configurations (Nginx/Caddy).
 - Implemented proactive host and network-level security measures, including Cloudflare integration and rigorous server hardening via UFW and Fail2Ban.
 - Maintained operational resilience and uptime through automated SSL management and continuous infrastructure monitoring.
- **METU Mathematics Club** *March 2020 – September 2024*
Technical Operation Coordinator Ankara, Turkey
 - Maintained the club's technical infrastructure including website management and digital tools supporting workshops and online events.

PROJECTS & ENGINEERING SHOWCASE

- **kursataknc.dev & Engineering Lab** *Active*
Self-Hosted Systems Architecture Lab kursataknc.dev
 - Architected a scalable, multi-module backend environment applying clean architecture and Domain-Driven Design (DDD) principles, maintaining a strict logic/integration split for a deterministic, UI-agnostic core.
 - Engineered a hardened, high-performance RESTful API pipeline (`/lab`) applying Defense-in-Depth strategies: scoped per-request CSP nonces, CSRF double-submit patterns, and sliding-window rate limiting.
 - Spearheaded comprehensive quality assurance utilizing Hard TDD (Vitest/Playwright) and rigorous build-time validation (Zod) to prevent runtime state corruption.
 - Directed the full Software Development Life Cycle (SDLC), orchestrating automated CI/CD pipelines via GitHub Actions for multi-stage container deployments.
 - Implemented enterprise-grade observability through privacy-first telemetry and structured logging (Pino), engineering automated PII redaction (salted SHA-256) for secure system monitoring and GDPR compliance.
- **DotFiles Project** Repository
Reproducible Development Environment
 - Engineered a reproducible, version-controlled development environment across platforms using Nushell and GNU Stow.
 - Developed custom shell scripts and patched Tmux plugins (tmux-ip-address, tmux-net-speed) to optimize system monitoring and backend workflows.

SKILLS

- **Backend Stack:** Node.js, TypeScript, Python, RESTful APIs, Next.js App Router
- **Architecture:** Clean Architecture, Domain-Driven Design (DDD), Strict Layering
- **Databases:** PostgreSQL, Redis (Caching), SQL Performance Tuning, Data Integrity
- **Security Eng:** Per-request CSP Nonces, CSRF, Zod (Validation), STRIDE Threat Modeling, PII Redaction
- **Infra & CI/CD:** Linux, Docker, Caddy/Traefik, GitHub Actions, IaC, VPS Management
- **Tooling & QA:** Nushell, Bash, Neovim, Git, Vitest, Playwright, Biome, Pino
- **Language:** English (C1)