

Muhammet Eren Karakuş

Software Engineer

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SUMMARY

Software Engineer graduating June 2026 from Marmara University. I design and ship production systems at the intersection of AI, Web3 infrastructure and automation: from Solidity smart contracts and on-chain analytics to self-hosted TypeScript stacks and enterprise .NET platforms. Founder-engineer of four live ventures (Forsety, PanoptesLabs, KiteID, ForjaTempo); internship experience at Ziraat Technology, AIATUS AI and Anadolu Isuzu.

SKILLS

Languages	Python, TypeScript, Go, C#, C, Java, Solidity, SQL
Frameworks	.NET / ASP.NET, Next.js, Node.js, Spring Boot, Foundry, Wagmi + Viem, OpenZeppelin, React, Tailwind
AI & ML	LightGBM, XGBoost, RAG systems, MCP (Model Context Protocol), LLM integration, Claude Code, Cursor, GitHub Copilot, n8n
Infrastructure	VPS administration, Docker, Dokploy, Cloudflare, Nginx Proxy Manager, Redis, DragonflyDB, GitHub Actions, Hetzner
Blockchain	Solana, Aptos, Tempo, Canton Network, Kite AI, Cosmos SDK, EVM (Ethereum / Polygon), Shelby Protocol
Databases	PostgreSQL, Oracle, MSSQL, SQLite, Prisma, Drizzle ORM, Oracle Data Integrator (ODI), PL/SQL
Concepts	REST, gRPC, OAuth, SIWE / SIWS, Microservices, Event-driven architecture, Clean Architecture, CI/CD, Agile / Scrum

EXPERIENCE

Embedded Systems & Digital Solutions Intern · [Anadolu Isuzu Automotive Industry](#) *Sep 2025 – Jan 2026 · Istanbul*

- Delivered a production-grade **Automotive Log Monitoring Platform (.NET)** with real-time telemetry visualization and **AI/RAG-based question answering** for fault diagnosis; planned for fleet-wide deployment at Anadolu Isuzu.
- Built **SignalR** push pipelines for real-time dashboards and **OTA update orchestration (FOTA & SOTA)** for remote firmware and software deployment across vehicles.

AI & Data Engineering Intern · [AIATUS AI](#) *Aug 2025 – Sep 2025 · Remote*

LLM research and implementation for operational-workflow automation; built AI-facing UIs and API integrations using Node.js and modern frontend tooling on user-focused real-world projects.

Online Intern, QNB 101 Program · [QNB Turkey](#) *Feb 2025 – Mar 2025 · Remote*

Completed banking-technology, financial-software-systems and career-development tracks; connected with industry professionals across QNB's tech organization.

Web Development Program · [Acunmedya Academy](#) *Oct 2024 – Feb 2025 · Remote*

Full-stack web development with .NET / C#, layered architecture and enterprise design patterns; shipped practical applications through the program.

Data Warehouse Management Intern · [Ziraat Technology](#) *Jul 2024 – Sep 2024 · Istanbul Financial Center*

- Designed **ETL / ELT pipelines** with Oracle Data Integrator (ODI) for bank-scale data-warehouse workflows at the Istanbul Financial Center.
- Authored and tuned **PL/SQL and SQL** for query optimization, performance improvements and automated enterprise data flows over large historical datasets.

VENTURES & PRODUCTS

Forsety (forsety.xyz) : Proof layer for licensed AI data. Cryptographic receipt for every dataset access. Built on Shelby Protocol and Aptos. Solo.

TypeScript · Next.js · Drizzle ORM · MCP server · Turborepo

PanoptesLabs (panoptes.cc) : Chain intelligence platform (validator monitoring, endpoint health, anomaly detection) plus the official `republic-sdk` TypeScript SDK on npm for the Republic AI network. Solo.

TypeScript · Next.js · Cosmos SDK · Prisma + PostgreSQL · VPS

KiteID (kiteid.xyz) : ENS-style `.kite` naming and delegable agent identity on the Kite AI chain. Six smart contracts live on testnet; 224 passing tests; self-hosted. Solo.

Solidity · Foundry · OpenZeppelin · Next.js · Ponder · Drizzle

ForjaTempo / Forja (forja.fun) : Non-custodial token toolkit for Tempo, the payments-first blockchain by Stripe and Paradigm. Seven smart contracts verified on mainnet; 335+ Foundry tests. Solo.

Solidity · Foundry · Next.js · Wagmi + Viem · RainbowKit

SELECTED PROJECTS

Automotive Log Monitoring Platform (.NET). Production enterprise system at Anadolu Isuzu: real-time telemetry dashboard, AI/RAG question answering, SignalR push updates, OTA (FOTA / SOTA) orchestration.

Data Warehouse and ETL Development (ODI, SQL). Oracle Data Integrator pipelines and PL/SQL tuning for bank-scale warehouse workflows at Ziraat Technology, Istanbul Financial Center.

PolyHawk Tracker (TypeScript). Real-time Polymarket whale tracker: insider-pattern detection, wallet-level P&L analytics and Telegram alerts for trading signals.

personal-ai (B.Sc. Graduation Project, in progress). Privacy-first mobile AI assistant running an on-device LLM; no data leaves the device. React Native + native inference.

OPEN SOURCE CONTRIBUTIONS

Contributions to **17 upstream projects**: **14 merged PRs** to **NousResearch/hermes-agent** (native MCP client, sandbox file transfer, security hardening); **7 PRs** to **eigent-ai/eigent**. Also open-webui, janhq/jan, FlowiseAI, crewAI, OpenMind/OM1, shelby-xyz, 0xMiden/node, RepublicAI, trpc, zellij, changedetection.io, NginxProxyManager.

HACKATHONS

Solo participant across AI-agent and Web3 hackathons: **Nous Research Hackathons** (Mar & Apr 2026, hermes-agent sandbox PR submissions); **Encode Club Kites: AI Agentic Economy** (Apr 2026, KiteID); **AppsFactory Canton Network** (Apr 2026, Canton Control Tower); **OpenWallet Hackathon** (Apr 2026, CryptoGotchi).

EDUCATION

Marmara University, Faculty of Technology, Computer Engineering, Bachelor of Science · *Expected June 2026* · Istanbul

LEADERSHIP & ACTIVITIES

Chair, Events Committee · **MÜSAK, Marmara University Social Activity Club** · [@musosyalaktiviteler_](https://twitter.com/musosyalaktiviteler_) *Current*

Chair, Career Committee · **MACSEC, Marmara University Computer Engineering Club** · [@macseccommunity](https://twitter.com/macseccommunity) *Previous*

LANGUAGES

English: B1 · Turkish: Native

REFERENCES

Hıdır Üstündağ
Co-Founder, OYEDU
+90 541 935 70 59

Sefa Beker
Team Lead, Anadolu Isuzu
[Reference letter \(PDF\)](#)

Utku Çeken
Cybersecurity Manager, Anadolu Isuzu
[Reference letter \(PDF\)](#)