

ARAL CAVLAK

Full-Stack Software Engineer | TypeScript/React/Node.js, C#/.NET, AWS

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Professional Summary

Full-stack engineer who owns systems end to end. I am the sole engineer on Manejer, a multi-tenant SaaS platform: NestJS and PostgreSQL with row-level-security tenancy, React and React Native clients, and AWS infrastructure as code with CI/CD. I am also one of three engineers who built a production ERP from an empty repository for 10+ commercial clients, including its tax-authority e-invoicing compliance, third-party integrations, messaging and mobile companion. I build the AI tooling I work with: an LLM reporting module and an MCP server inside the ERP, and an autonomous coding agent that works my GitHub issues in isolated containers.

Technical Skills

Languages:	TypeScript, C#, SQL, Python, Kotlin, C++
Platforms & Frameworks:	React, React Native / Expo, Node.js, NestJS, .NET, ASP.NET Core, Drizzle ORM, Entity Framework
Databases:	PostgreSQL (row-level security, range types, Marten document/event store), MSSQL
Cloud & Infrastructure:	AWS (CDK, ECS Fargate, RDS, S3), GitHub Actions, Docker, infrastructure as code
Domains:	multi-tenant SaaS, ERP & business software, integrations & compliance, computer vision, AI/agent systems
Architecture & Integration:	REST/WebSocket, multi-tenancy (PostgreSQL RLS), event sourcing (Marten/Wolverine), MCP/LLM tooling
Tools:	Git, Claude Code, automated deployment & updater systems

Experience

Software Engineer Jan 2025 – Present
İzmir, Türkiye

Most Elektromarket, Taxsoft G-TAX

- Sole engineer on Manejer, a pre-launch multi-tenant SaaS platform for equestrian facilities (TypeScript, NestJS, Drizzle ORM, PostgreSQL): pooled tenancy enforced by PostgreSQL row-level security, with effective-dated per-tenant catalogs.
- Built its booking engine on Postgres range types and EXCLUDE constraints, so instructor scheduling, lesson packages and customer credits are conflict-free at the database level rather than in application code.
- Ship its React web app and Expo/React Native mobile app against one API, on AWS infrastructure as code (CDK, ECS Fargate, RDS, S3) with GitHub Actions CI/CD, deployed and running.
- As part of a 3-person core team, designed and built from scratch a comprehensive ERP running in production for 10+ clients, spanning 100+ tables and 200+ screens (C#, .NET, WinForms, DevExpress, Entity Framework, MSSQL).
- Built the ERP's integration and compliance layer: Turkish tax-authority e-Invoice and e-Archive filing, automated preliminary accounting, and a real-time precious-metal price server (REST + WebSocket) that feeds live prices to every client.
- Built the platform around the ERP: an Expo/React Native mobile companion with its .NET API, internal messaging, and the auto-updater and installers that bootstrap .NET and SQL Server at 10+ client sites.
- Built an LLM-powered dynamic reporting module that lets users generate reports from operational data in natural language.
- R&D on extending legacy .NET frameworks to support hardware integration and AI tooling they were never designed for, including a .NET MCP server exposing internal systems to LLM clients.
- Work AI-native on the production codebase: a self-built autonomous coding agent (Whiplash) takes GitHub issues to reviewed PRs in isolated containers and git worktrees, and Python/.NET harnesses drive screen-level test automation of the ERP.
- Designed an AprilTag + UHF RFID physical stock verification system; unified a Chainway C5 handheld, a desktop server and a desktop client into one workflow to reduce stock and count errors, now used in live operations.

Co-Founder / Creative Director, Iron Athletics Club, İzmir, Türkiye Sep 2024 – Present
Co-founder and creative director at a sportswear brand; led product development, campaigns and brand creative direction.

Selected Projects

RaRe (Rate a Record) ratearecord.com | Expo React Native, Node.js, PostgreSQL, Prisma. A live, full-stack music rating and review platform; built end to end with a mobile UI, REST backend, authentication and deployment.

Whiplash | LLM, Docker, GitHub, CLI. An autonomous coding agent platform that resolves GitHub issues and PRs; task execution, review workflows, containerised runs and a dashboard.

Swarmr | Multi-agent orchestration, Claude CLI. A multi-agent orchestration dashboard around local Claude agents: state tracking, task graphs and direct chat with each agent.

cairn | Web, computer vision. Browser-based guided physical inventory verification using visual markers; runs in a smartphone browser with no app to install.

Cavlon | .NET, Marten, Wolverine, PostgreSQL. Event-sourcing based modular ERP on a pure C# domain kernel; a conserved movement ledger, a contributor pipeline and demo apps take it beyond classic CRUD.

Education

İzmir University of Economics, B.Sc. in Software Engineering Expected Graduation: June 2027