Ahmetcan Aksu

FULL STACK DEVELOPER — FINTECH & AI

C# / .NET · Node.js · TypeScript · React · Rust · LLM applications & tool calling

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SUMMARY

Full stack developer, strongest on the backend, with 4+ years of professional experience building production systems in C#/.NET, Node.js/TypeScript, React and Rust: bank and TEFAS integrations, KYC and compliance flows, and real-time messaging at 100,000+ messages per hour. I also build applications on LLMs (Claude, OpenAI-compatible APIs, local models), and I designed my own programming language and VM in Rust.

TECHNICAL SKILLS

Programming	TypeScript, JavaScript, C#, Rust, Dart, C, C++, Java, SQL
AI & LLMs	LLM applications & tool calling, Claude API, OpenAI-compatible APIs (Groq, LM Studio), local LLMs (Qwen3-VL, Gemma), vision models
Backend	Node.js, Deno, Bun, Express, GraphQL (Apollo), REST, WebSockets, .NET, Entity Framework Core, Hangfire, RabbitMQ
Frontend	React, Redux, Svelte, HTML/CSS, WebAssembly
Mobile & Desktop	React Native, Flutter, Tauri, Electron
Databases	MSSQL, PostgreSQL, MongoDB, Redis, Elasticsearch, MinIO, Cloudflare R2
Infra & Tools	Docker, Nginx, Linux & Bash, GitHub Actions CI/CD, Cloudflare, AWS, Git, Puppeteer
Systems & Embedded	Algorithm design, compiler and bytecode VM design, ARM, ESP32/ESP8266, Arduino, Raspberry Pi, TCP/UDP, FFI
Spoken	Turkish — Native; English — Professional — C2 (EF SET certified)

EXPERIENCE

Software Developer · Fonmap Financial Technologies Feb 2024 – Present · Istanbul, Türkiye

- **TEFAS integration:** owned the order pipeline end to end in .NET — submission, status tracking, cancellation and blockage release as fault-tolerant background jobs with distributed locking; daily fund prices are pulled in automatically on the same infrastructure.
- **Custodian-bank integration:** account opening, electronic document signing, blockage requests, money transfers and portfolio asset transfers, with request-level logging for reconciliation.
- **KYC & onboarding:** identity-document and proof-of-address upload, AML checks and sanctions screening, phone and device verification, secure session and refresh-token handling.
- **Chain transactions:** multi-step fund swaps (sell, settle, buy) that rebalance a portfolio in one request, with partial-failure and cancellation handling.
- **Regulated flows:** GSYF/GYF fund issuance and pricing, qualified-investor applications and approvals, time-stamped transaction documents, account statements and exchange reports.
- **AI in the product:** AI portfolio recommendations, portfolio outlooks and AI fund risk evaluations with plain-language explanations and disclaimers.
- **Platform & back office:** took the backend and back-office API from pre-production to go-live; notification and e-mail reporting jobs; Redis caching and bulk queries; migrated to TypeScript, then to C#/.NET (EF Core); Docker and Nginx deployments with GitHub Actions CI/CD; Cloudflare R2 CDN; Elasticsearch logging.

Stack: C# / .NET, EF Core, MSSQL, Hangfire, Redis, Elasticsearch, Node.js, TypeScript, React, Docker, Nginx

Full Stack Developer · Qpien Aug 2022 – Feb 2024 · Istanbul, Türkiye

- **Real-time messaging:** WebSockets and RabbitMQ with asynchronous, parallel processing at 100,000+ messages per hour.
- **Integrations:** WhatsApp, Instagram and Telegram messaging, marketplaces (Trendyol, Hepsiburada, N11) and store platforms (Shopify, WooCommerce, Ikas, Ticimax) in one dashboard; React/Redux front end, Node.js/GraphQL APIs on Redis and MongoDB.

Stack: React, Redux, TypeScript, Node.js, GraphQL (Apollo), WebSockets, RabbitMQ, Redis, MongoDB, AWS S3

Full Stack Developer (Intern) · Massive Energy Jun 2021 – Jul 2022 · Istanbul, Türkiye

- Designed and built management panels, backend architecture and databases independently; Linux deployments on AWS (Node.js, MongoDB).

Freelance Developer · Self-employed Jan 2019 – Aug 2022 · Remote

- Mobile and backend applications for clients: API design, integration and releases (React, Node.js, Flutter, Rust).

PROJECTS & OPEN SOURCE

AI Sprite Studio — Creator 2026 · TypeScript · LLM application

- **The model edits through tool calls,** using the same 16 undoable tools as the user; palette-indexed grids, symmetry and frame deltas keep it within the token budget of local 8B models (LM Studio).

AIStudio — AI Video Studio 2026 · TypeScript · Claude, Groq, LM Studio

- **The model uses 20+ tools** to write animated HTML video frames; deterministic export from headless Chrome under a virtual clock to ffmpeg, with ElevenLabs narration.

ProtoBoard — Creator 2026 · TypeScript · vision models, three.js

- **AI-assisted electronics prototyping:** a vision model turns a photo of a module into a to-scale part with its pads; net-aware wiring checks (shorts, over-voltage, TX/RX and I²C swaps) and a perfboard layout verified against the wiring, in 2D and 3D.

Ellie Language — Creator & Maintainer 2020 – Present · Rust · 49 GitHub stars

github.com/behemehal/Ellie-Language

- **Type-safe language** for embedded (ARM) and sandboxed (WebAssembly) targets: parser, compiler and bytecode VM built from scratch, including memory management and garbage collection.

Open Source & Products — Behemehal 100+ repositories · Rust · TypeScript · Dart

github.com/behemehal · github.com/ahmetcanaksu

- **L.A.S.E.R**, a React Native puzzle game live on Google Play; **QuicKV** and **Envelope**, Tauri desktop apps (Redis client, HTTP client); **UtilStation** (85+ developer tools); Rust crates Menemen, Rust-NMEA, SafeEn and Wole on crates.io; CHIP-8 and 6502 emulators.

EDUCATION

BSc, Management Information Systems

Anadolu University · 2024 – Present

Associate Degree, Computer Programming

Işık University · 2022 · GPA 3.53 / 4.00 · C, C++, C#, Java, JavaScript, MSSQL, HTML

CERTIFICATES

EF SET English Certificate — C2; Turkish Capital Markets Association; Mobile App Development with Google Flutter.