

Ömer Faruk Aydın

Software Engineer

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SUMMARY

Computer Engineering graduate and software engineer at Okkalı Kahve, building the software that connects IoT coffee and tea machines with their users, the production line and field teams. I have shipped a consumer payment app live on the App Store and Google Play, a production traceability system for the factory floor, hardware setup tools, a field operations app and the company website. I work mainly in React Native, Next.js, Node.js, Python and Kotlin, and take a feature from specification through to release myself.

EXPERIENCE

Software Engineer, Bayiner Elektronik A.Ş. (Okkalı Kahve)

Oct 2025 – Present

Full-time, Istanbul. IoT coffee and tea machine manufacturer. Mobile work in Expo, React Native and TypeScript.

- **Mobile payments.** Primary developer of the consumer app live on the App Store and Google Play: QR payment at the machine, balance top-up through a payment provider, a loyalty wallet with spending history, NFC card pairing and push notifications.
- **Production traceability.** Designed and launched a tablet-based system on the factory floor that digitally tracks production stages, part relationships, testing and maintenance. Implemented NFC sign-in for workers, barcode scanner and label printer integrations, and Kotlin native modules for hardware communication.
- **Hardware setup and test tools.** Built the tools production and field teams use for microcontroller programming, machine screen setup and kiosk configuration in one place. They run on desktop and Android tablets and update themselves remotely.
- **Field operations app.** Developed the app operators use to monitor machine data in real time and pull reports, and sales teams use for route planning and cost calculations.
- **Corporate website.** Built the multilingual corporate site, okkalikahve.com.tr, with a machine catalog, product pages and a quote form, including SEO and performance optimization.
- **Release and team processes.** Manage build and OTA update processes for the iOS and Android apps. Write API contracts and specifications for the backend team and contribute to the admin panel.

Software Developer Intern, Sagel AI

Aug 2025 – Oct 2025

Remote.

- Built Ollama-Agent-Kit, an LLM agent with conversational memory and tool calling over the Ollama API, wired to weather, time and reservation tools.

EDUCATION

B.Sc. Computer Engineering, Sakarya University

Sep 2022 – Jun 2026

Previously studied Electrical and Electronics Engineering at Sakarya University (Aug 2019 – Sep 2022).

SELECTED PERSONAL PROJECTS

- **Gidex** (Apr 2026). Food scanner for the Turkish market: scan a barcode for a health score, ingredient breakdown and healthier alternatives, with a personal allergen profile that flags products against a 238-entry additive database. Backendless, on the Open Food Facts API, with all user data kept on the device. Expo, React Native, TypeScript.
- **PolicyGPT** (Jul 2025). Retrieval-augmented assistant that turns static Turkish government-procedure documents into interactive step-by-step guides driven by the user's question. Ollama, Mistral, LangChain, Flask.
- **VoiceGPT** (Jul 2025). Turkish voice assistant. Microphone input is transcribed by a local Whisper model, answered by a local Llama 3 through Ollama, then spoken back. The user's voice and question never leave the machine. Python, Gradio, Whisper, Ollama, gTTS.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Python, Kotlin, Dart, C, C++, SQL
Mobile	React Native, Expo (SDK 52 to 56), Expo Router, EAS Build, EAS Update (OTA), Flutter, NFC, Kotlin native modules, Android kiosk mode (lock task)
Web	React 18/19, Next.js 14 (App Router), Tailwind CSS, shadcn/ui (Radix UI), Vite, static export
Backend & APIs	Node.js, Express, REST API design, third-party API integration (payment providers, Open Food Facts), server-sent events, nginx, pm2
Systems & IoT	NFC (built-in, USB-HID), Bluetooth barcode readers, Zebra label printing over TCP, microcontroller firmware flashing, an ESP32-S3 programmer (Arduino), Android USB host and ADB protocol, Chaquopy, Socket.IO, PyInstaller
AI & LLM	Ollama, Llama 3, Mistral, LangChain, retrieval-augmented generation, Whisper
Practice	Release and OTA management, SSL pinning, HMAC request signing, idempotent payment calls, internationalization (i18next), SEO and structured data (JSON-LD), image and page-weight optimization, automated test and deploy gates, load testing, specification-first development

LANGUAGES

Turkish (native), English (intermediate, professional reading and writing), German (beginner)