

TOLGA BOZ

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PROFESSIONAL SUMMARY

Backend-focused full-stack developer experienced in building REST APIs, third-party integrations, and authentication flows, primarily with Node.js and React. Also contributed to production codebases using Python/Odoo and ASP.NET Core, with a focus on caching, concurrency, and fail-safe behavior in production-facing code.

SKILLS

Backend: Node.js, Express.js, Python, REST APIs, JWT, Zod

Frontend: React, Next.js, TypeScript, JavaScript (ES6+), Tailwind CSS

Databases: PostgreSQL, MongoDB, Mongoose

Tools & DevOps: Git, GitHub, Docker, Postman, GitHub Actions

Also worked with: Odoo, ASP.NET Core

EXPERIENCE

Software Engineering Intern

cOmmited, a Fibabanka venture (Remote)

Jul 2026 – Aug 2026

Odoo 19 eCommerce module: cart-level CO₂ calculation and in-cart carbon-offset certificate sales.

- Replaced a blocking synchronous call with an AJAX polling flow, cutting cart page load from 12s to under 0.2s.
- Designed a signature-keyed result cache with TTL, stall detection, and per-session rate limiting, refreshed under a PostgreSQL advisory lock to prevent cache stampede.
- Built a per-store stock reservation system: availability as supply minus live reservations, held under ordered advisory locks with a state machine and expiry cron.
- Found a silent TOCTOU flaw no review had caught — Odoo's REPEATABLE READ cursors made lock-held re-checks read their own stale snapshot — and reused the fix in two later races.
- Delivered 13 reviewed pull requests and closed 50+ review findings across concurrency, session security, idempotency, and fail-safe state modeling.

Full-Stack Developer Intern

Bluesense (Remote)

Jul 2025 – Nov 2025

- Built the Articles feature end to end in ASP.NET Core: EF Core migration and schema, entity/DTO layer, repository pattern behind an interface, and CRUD endpoints verified via Swagger.
- Integrated the Articles API into the client, replacing static content with dynamic loading, Markdown rendering, a searchable list view, and offline image fallback.
- Diagnosed contract mismatches between backend and client, including a Double/Int deserialization bug that silently served fallback data instead of real API values.
- Built React-based doctor and patient panels from Figma designs, on a modular CSS system of shared variables and reusable classes.

PROJECTS

Atmora - Carbon Footprint Tracking Platform

Website

- Built a full-stack Node.js/Express 5 REST API on MongoDB Atlas with a layered architecture and isolated business logic.
- Designed a dual-mode emission engine using IPCC Tier-1 activity factors, benchmarked against national references.
- Implemented JWT auth (bcrypt, route protection) with per-user data isolation and Zod validation on all endpoints.
- Built dashboard and stats services with trend aggregation, deployed on Render with a Kotlin/Compose client.

TaskFlow - Task & Performance Management System

GitHub | Live Demo

- Built a full-stack MERN platform for task management, collaboration, and performance tracking.
- Implemented 25+ REST API endpoints including auth (JWT), RBAC, invitations, and reporting.
- Created a React dashboard with Kanban board (drag & drop), protected routes, and real-time activity stats.

EDUCATION

B.Sc. in Information Systems Engineering

Kocaeli University, Türkiye

2021 – 2027 (Expected)

LANGUAGES

English: Upper Intermediate (B2)