

Tal Apelfeld

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Summary

Full-stack / backend developer (B.Sc. Computer Science, 2025) specializing in **TypeScript, Node.js, React, PostgreSQL** and **event-driven microservices**. Built **SolidCell**, a production style ecommerce system with **RabbitMQ, outbox/DLQ/idempotency, OAuth2 (Google), NGINX gateway**, and **Docker Compose**. Passionate about resilient architectures, clean code, and measurable developer experience.

Work Experience

Shikma - Tkuma – Shikma Beer Recycling Platform (No-Code/Bubble.io)

Junior Developer (R&D), (2024)

- Developed a no-code web platform that allows users to **scan unique QR codes** on Shikma beer bottles and redeem vouchers via custom recycling machines.
- Planned and executed the **project end-to-end within a startup team** setting, including UX/UI design, platform logic, and user journey optimization.
- Drove increased user engagement in recycling initiatives and contributed to environmental awareness.
- Collaborated closely with CBC Israel, **enhancing brand visibility** and receiving positive feedback from both users and corporate stakeholders.

Projects

SolidCell - E-commerce Microservices

- Designed and implemented an **event-driven** e-commerce system: services for **Auth, Inventory, Orders, Payments, Notifications, Logs**, fronted by **NGINX**.
- Resilience & correctness:** implemented **Outbox** for DB event consistency, **retries + DLQ, idempotent** consumers and validation middleware; **health** endpoints across services.
- Auth:** **Google OAuth** via OpenID-Client, issuing **JWT** session cookies (`/auth/google`, `/auth/google/callback`, `/logout`, `/me`).
- Orders:** POST `/orders`, **SSE** stream `/orders/:id/status/stream` for real-time updates; persisted status with polling fallback.
- Payments:** consumed **CHARGE_PAYMENT** commands; published AUTHORIZED/FAILED; **DLQ** and **retry** with back-off routing.
- Inventory:** catalog APIs for **phones** and **cases** with **bulk upsert**, **Postgres** storage using JSONB and text arrays for flexible product specs/tags.
- Notifications:** consumed ORDER_CREATED → email handler with **idempotency + retry** chain; exposed simple health/test endpoints.
- Developer experience:** one-command **Docker Compose** spin-up; **NGINX** routes (`/auth`, `/orders`, `/inventory`, `/payments`, `/notifications`), clear .env contract and troubleshooting notes.
- Frontend:** React (Vite + Tailwind) shop UI with filtering, category pages (phones, cases, audio) and API integration.

LogMonitor – Full-Stack Log Monitoring Dashboard

- Designed and implemented a log-management platform** using React/TypeScript, Node.js/Express, PostgreSQL, and Elasticsearch. The system ingests JSON/CSV log files, parses and normalizes each entry, and indexes them into an auto-created “my-logs” index with custom mappings for efficient searching and aggregations.
- Built REST APIs** for file upload (with progress feedback) and remote ingestion; supported both synchronous and bulk ingestion via HTTP, demonstrating strong familiarity with APIs, HTTP requests, and secure JWT-based authentication.

- **Implemented analytics and dashboards** wrote Elasticsearch aggregations (terms and date-histogram) to compute per-service error rates, time-series metrics and top error messages; surfaced these via an /api/analytics endpoint and visualized them with charts on the dashboard.
- **Implemented user authentication system** backed by **PostgreSQL**, leveraging secure SQL queries for credential storage, retrieval, and validation.
- **Troubleshooted and resolved ingestion issues** such as index mapping errors and 403 responses; added logic to auto-create indices and handle bulk-index errors, reflecting real-time incident response and log investigation experience.
- **managed code on Git/GitHub**, documenting the project with a comprehensive README

Skills

- JavaScript, TypeScript, React.js, Node.js, NestJS, Next.JS, Python, MongoDB, SQL, Postman, Elasticsearch, Kibana, Jira, Docker.
- **Soft Skills:** Problem-Solving, Communication, Collaboration, Teamwork

Education

2021-2025: **Bachelor of Computer Science**, HIT – Holon Institute Of Technology.

Military Service

2017-2019: Fighter Commander –Tzahanim Unit.

Languages

Hebrew: Native, **English:** Fluent, **Russian:** Fluent.