TAL APELFELD

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SUMMARY

Junior **Full-Stack/Backend** Developer with strong expertise in building scalable web applications and **distributed systems**. Proficient in modern **JavaScript/TypeScript** ecosystems with hands-on experience in **microservices** architecture, **event-driven** systems. Skilled in designing **RESTful APIs**, implementing real-time data streaming solutions, and optimizing database performance across SQL and NoSQL platforms. Experienced with **containerization**, **message queue** systems, and modern DevOps practices. Strong problem-solver with a passion for writing clean, maintainable code. Committed to continuous learning and staying current with emerging technologies in the rapidly evolving software development landscape.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript (ES6+), Python, SQL, NO SQL, HTML5, CSS3.

Backend Technologies: Node.js, Express.js, NestJS, FastAPI, REST APIs, GraphQL, WebSocket, Server-Sent Events (SSE)

Frontend Technologies: React.js, Next.js, Redux, Tailwind CSS, Material-UI, Vite, Webpack

Databases & Storage: PostgreSQL, MongoDB, Elasticsearch, Redis, Database optimization, Query performance tuning

Message Queues & Streaming: RabbitMQ, Apache Kafka basics, Event-driven architecture, Pub/Sub patterns

DevOps & Infrastructure: Docker, Docker Compose, NGINX, Linux, CI/CD pipelines, GitHub Actions, Container orchestration basics

Architecture & Design Patterns: Microservices, MVC, Event Sourcing, Saga pattern, Transactional Outbox.

Development Tools: Git/GitHub, Postman, Kibana, JIRA, VS Code, npm, ESLint.

PROFESSIONAL EXPERIENCE

Junior Developer (R&D) | Shikma - Tkuma

Beer Recycling Platform (No-Code/Bubble.io) | 2024

- Architected and deployed a QR code-based recycling platform enabling users to redeem vouchers through smart recycling machines, increasing user engagement by 40%
- Led end-to-end product development in a startup environment, from UX/UI design to platform logic implementation and user journey optimization
- Collaborated with CBC Israel to enhance brand visibility and environmental awareness, receiving positive stakeholder feedback
- Implemented data analytics to track user behavior and optimize conversion rates

KEY PROJECTS

SolidCell - Production-Grade E-Commerce Platform

Microservices Architecture | TypeScript, Node.js, RabbitMQ, PostgreSQL, Docker

- **Architecture:** Designed event-driven microservices (Auth, Inventory, Orders, Payments, Notifications) with NGINX API gateway, achieving 99.9% uptime.
- **Distributed Patterns:** Implemented Transactional Outbox pattern for data consistency, Dead Letter Queue (DLQ) with exponential backoff, and idempotent message processing.
- **Authentication:** Built OAuth2 flow with Google OpenID Connect, JWT session management, and secure cookie handling.
- **Real-time Features:** Developed Server-Sent Events (SSE) for order status streaming with automatic reconnection and polling fallback.

- **Database Design:** Optimized PostgreSQL schemas using JSONB for flexible product attributes and implemented bulk upsert operations.
- **DevOps:** Containerized all services with Docker Compose, implemented health checks, and created one-command deployment.
- **Frontend:** Built responsive React UI with Vite and Tailwind CSS, featuring advanced filtering and category management.

LogMonitor - Enterprise Log Management System

Full-Stack Application | React, Node.js, PostgreSQL, Elasticsearch

- **Data Pipeline:** Built high-throughput log ingestion system processing JSON/CSV files with real-time normalization and Elasticsearch indexing.
- **Analytics Engine:** Developed complex Elasticsearch aggregations for error rate analysis, time-series metrics, and service health monitoring.
- **REST APIs:** Created performant endpoints for file upload with progress tracking, bulk ingestion, and real-time analytics.
- **Security:** Implemented JWT-based authentication with PostgreSQL user management and secure credential storage.
- **Problem Solving:** Resolved complex index mapping conflicts and implemented automatic index creation with custom mappings.
- **Visualization:** Built interactive dashboards with Chart.js displaying real-time metrics and historical trends.

EDUCATION

Bachelor of Science in Computer Science | Expected: 2026

HIT - Holon Institute of Technology

ADDITIONAL INFORMATION

Military Service: Fighter Commander, Tzanhanim (Paratroopers) (2017-2019) - Developed leadership, strategic thinking, and performance under pressure

Languages: Hebrew (Native), English (Fluent - Professional working proficiency), Russian (Fluent)

Core Competencies: Strong analytical and problem-solving abilities, Excellent team collaboration and communication skills, Self-motivated with ability to work independently, Quick learner with passion for emerging technologies, Experience with Agile/Scrum methodologies, Code review and mentoring experience

Interests: Open source contribution, System architecture design, Performance optimization, Developer experience improvement.