

Orel Perez

Full-Stack Software Engineer

orelpperez@gmail.com

+972 052 3533 540

Israel

Key skills

- Java
- Solidity
- C++ / C#
- Claude Code
- Node.js
- Next.js
- React Native
- JavaScript
- TypeScript
- React
- HTML & CSS
- Git
- Docker
- AWS
- SQL / PostgreSQL
- CI/CD
- Priority ERP

Education

**B.Sc.
Computer Science**
The Open University
Sep 2023 - Sep 2027

Open Source
Google /
YouTube /
Udemy

Social



Summary

A dedicated Computer Science student and versatile software engineer with hands-on experience in full-stack web development, backend integrations, and cloud infrastructure. Adept at building robust architectures, from web3 smart contracts to AI-driven applications and complex enterprise software integrations. Passionate about writing clean code, optimizing backend performance, and delivering scalable technological solutions.

Career history

Information Systems and IT Manager – Maimon's Spices 2025 – Present

Directing enterprise IT operations while developing custom software integrations to automate industrial and manufacturing workflows.

Key responsibilities

- **Application Development:** Architected and developed a full-stack Next.js application integrating the Meta WhatsApp Business API with the Priority ERP system to automate customer order processing.
- **Backend Engineering:** Built a secure serverless backend utilizing TypeScript, PostgreSQL, and Prisma ORM to handle conversational commerce webhooks and execute transactional database updates.
- **Warehouse Management System (WMS):** Led the technical implementation and system architecture of a real-time WMS, ensuring seamless data synchronization and zero-downtime inventory tracking across field terminals.
- **IT Infrastructure:** Managed the Priority ERP system and deployed robust industrial Wi-Fi networks to support high-availability software deployments across multi-level facilities.

IT & Software Development Student – E. Taieb Engineering 2024 – 2026

Spearheaded the company's digital transformation, leading full-stack web development and cloud migration initiatives.

Key responsibilities

- **Full-Stack Architecture:** Designed and developed a corporate website and internal management dashboard using Next.js (React 19), TypeScript, and Tailwind CSS.
- **Backend & Security:** Implemented a secure backend infrastructure utilizing PostgreSQL with Prisma ORM, NextAuth.js for role-based access control, and Vercel Blob for edge-distributed file storage.
- **IT Operations:** Delivered comprehensive hardware, software, and network support to improve office workflows while digitizing complex organizational engineering data.

Web3 Full-Stack Developer & Technical Lead – Self Employed

2021 – 2023

Architected secure decentralized applications (dApps) and managed the end-to-end lifecycle of Ethereum-based digital asset projects from initial strategy to execution.

Key responsibilities

- **Smart Contract Engineering:** Developed, tested, and deployed secure smart contracts in Solidity on the Ethereum network, ensuring optimized gas consumption and strict security protocols.
- **Full-Stack Integration:** Designed and implemented end-to-end web solutions, connecting frontend user interfaces (React/TypeScript) with blockchain networks for safe digital transactions.
- **Cross-Functional Leadership:** Orchestrated multidisciplinary teams across development, UI/UX design, and marketing while managing Go-to-Market strategies and product roadmaps.

Projects

AI Agent Ecosystem – Confidential Stealth Project

Architected and developed the foundational infrastructure for a scalable, machine learning-based AI agent ecosystem using the Model Context Protocol (MCP) to enable dynamic skill learning and external tool integration, deployed entirely on a private, air-gapped infrastructure to ensure enterprise-grade security and complete data isolation.

Language App – Mobile Development Stealth Project

Engineered a local-first React Native (Expo) gamified language learning application, utilizing TypeScript, Zustand for state management, and an SQLite database (WAL mode) with a Repository pattern for offline readiness, alongside a Node.js pipeline leveraging the Anthropic AI SDK for automated content generation and Zod validation.

Monorepo Grocery App

Architected a full-stack mobile application for shared family grocery lists featuring automated supermarket price comparisons. Built using a monorepo architecture with a React frontend, TypeScript backend and gRPC communication protocols.