ALEX KUBICA

Software Engineer | Tel Aviv District, Israel

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I'm a software engineer with 11 years of experience building backend systems and full-stack applications, leading projects from design to production. I focus on data processing, performance optimization, and shared infrastructure, with a particular interest in large-scale distributed systems.

CORE SKILLS

Languages: TypeScript, JavaScript, SQL
Backend & Data: Node.js, PostgreSQL, REST APIs, GraphQL, WebSockets, ETL
Cloud & Infrastructure: AWS, CI/CD
Frontend: React, CSS
Architecture: Distributed Systems, System Design, Authentication & Authorization
AI: LLM Integrations, RAG, AI Agents

EXPERIENCE

Software Engineer | Merklebase July 2024 to October 2026

TypeScript, Node.js, React, PostgreSQL, AWS, Terraform, AI Agents, LLM Tool Calling, ETL

Built backend services and infrastructure for a digital asset portfolio platform, spanning financial data processing, authorization, real-time events, and AI-assisted analysis.

- Reduced large-portfolio load times from 30+ seconds to approximately one second by designing an asynchronous financial processing pipeline with ordered execution and precomputed profit-and-loss (P&L) rollups.
- Increased per-position transaction processing throughput from approximately 10 to 50–100 transactions per second in load tests through batching, checkpointing, and pipeline optimizations.
- Migrated approximately 7.3 million transaction records from shared PostgreSQL infrastructure to dedicated client databases, introducing PgCat routing to support tenant isolation and independent scaling.
- Led RBAC implementation across APIs and invitation workflows, defining action-level and portfolio-scoped permissions and coordinating delivery with two other engineers.
- Built portfolio-analysis agents using LLM tool calling and deterministic financial aggregation, with execution limits, session tracing, and automated evaluations.
- Built an SNS/SQS-backed WebSocket event platform with DynamoDB connection tracking, tenant-level batching, and concurrency controls to handle bursts of integration events.

Full Stack Developer | monday.com May 2023 to July 2024

JavaScript, React, Node.js, LLM, GraphQL, Ruby, Ruby on Rails

Built account setup and team adoption experiences on a product growth team.

- Built an LLM-powered assistant using monday.com's GraphQL API to create boards through natural-language interactions.
- Introduced a technical design document process that the team adopted to plan engineering initiatives.
- Owned onboarding and adoption A/B tests from planning through delivery, working with product and growth stakeholders.

Full Stack Developer | ArborKnot November 2021 to April 2023

JavaScript, React, Node.js, REST APIs, Microservices

Built frontend systems and backend APIs for product and operations teams.

- Built a shared design system to support consistent product interfaces.
- Developed consumer-facing REST APIs documented with Swagger/OpenAPI.
- Helped migrate a legacy monolith to a microservices architecture.

Frontend Developer | Wix October 2020 to November 2021

JavaScript, React, Redux

Built site localization experiences on the Wix Multilingual team.

- Implemented the core Wix Multilingual app using React and Redux for EditorX, Wix’s next-generation website creation platform at the time.
- Onboarded and mentored junior developers and students, helping them learn the codebase and tools and gradually take on development tasks.

Full Stack Developer | IDF, C4I September 2015 to September 2020

JavaScript, React, Node.js, PostgreSQL, Auth, ETL, CI/CD, Java, Python, MongoDB, Neo4j

Built shared authentication infrastructure, APIs, and data workflows supporting multiple engineering teams.

- Maintained shared authentication infrastructure and built an OpenID authorization gateway proxy.
- Extended shared MongoDB-based authentication infrastructure with PostgreSQL support for use across projects and teams.
- Built a GraphQL API with PostGraphile.
- Developed ETL workflows in a data engineering team and set up GitLab CI/CD.
- Onboarded and mentored new developers, helping them learn the codebase and tools and gradually take on development tasks.

EDUCATION

BSc, Computer Science | Netanya Academic College | 2016 to 2019
Programming Bootcamp | IDF Mamram | 2015