# Ezz Abuzaid

Software Engineer & AI Agent Developer

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## Summary

Software engineer with 8 years of experience building developer tools, frameworks, and AI-powered applications. Specialized in AI agent development with 2 years of production experience building LLM applications, autonomous agents, RAG systems, and multi-agent architectures. Creator of multiple open-source frameworks including DeepAgents (agent development), January (backend DSL), and Serverize (container platform). Strong track record of rapidly shipping production systems.

## Projects

### DeepAgents
Jan 2023 – present

TypeScript-native AI agent framework designed to be batteries-included
- Built comprehensive agent development framework for the TypeScript/JavaScript ecosystem
- Simpler and more accessible alternative to LangChain for TS developers
- Supports autonomous agents, RAG systems, and multi-agent architectures

### January
Jan 2022 – present

TypeScript backend framework with compile-time DSL and workflow-based architecture
- Designed internal DSL using compile-time primitives for type-safe backend development
- Workflow-based architecture that simplifies complex backend operations
- Automatic code generation reduces boilerplate and enforces consistent patterns

### Serverize
June 2023 – present

Self-hosted container platform for development deployments
- Built from idea to working product in under 1 month
- Features named channels with versioned releases and per-channel secrets management
- Container-based architecture similar to fly.io but optimized for development workflows

### sqlite-parser
Jan 2023

SQLite query parser written from scratch
- Implemented parser for core SQL subset (SELECT, INSERT, UPDATE, DELETE)
- Built as deep-dive learning exercise into compiler/parser design
- Foundation for text2sql agent project

### Text2SQL Agent
Jan 2023

AI agent that converts natural language queries to SQL
- Converts natural language to valid SQLite queries
- Integrates with sqlite-parser for query validation
- Demonstrates practical application of LLM + traditional tools

## Experience

**Senior Software Engineer**, Kortext – Remote                          Oct 2021 – present

EdTech platform for digital learning

• Utilized TypeScript Compiler API to accelerate Angular upgrades via automatic migrations
• Implemented and engineered the UX of Kortext AI chatbot
• Restructured monolithic monorepo into domain-based architecture for team scalability
• Drove technical improvements through written proposals and RFC process
• Led code reviews, technical decisions, and mentored team members

**Software Engineer**, Equiti.com – Amman, Jordan                          Mar 2019 – Oct 2021

International CFD Forex broker

• Built Front-End CRM from scratch using Angular 9 and Material Design
• Decreased loading latency by leveraging Angular SSR and PWA
• Converted Monolithic .NetCore project to Microservices using Node.js and .Net 5 with gRPC
• Utilized Node.js to send RabbitMQ messages to browser via SSE
• Handled stock data streams using reactive programming (RxJS and Rx.NET)
• Established CI pipelines in Azure DevOps for Angular, Node.js, .NetCore, and Flutter
• Optimized SEO for multiple web products (TradeHub.com, FXPesa.com)
• Wrote automated tests in JavaScript and C# for product quality and stability

**JavaScript Engineer**, NoventApp for Business Solutions – Amman, Jordan          Jan 2017 – Mar 2019

• Developed Food delivery application using Node.js, MySQL, TypeORM, TypeScript, and Angular
• Implemented policy-based caching in browser to increase data retrieval speed
• Integrated Firebase Realtime-Database to track drivers' locations
• Built PWA features including Add To Home Screen, Push Notifications, and Offline mode
• Built Angular boilerplate project used as template for 3 other projects
• Migrated application from Angular 2 to Angular 7

## Education

**Al-Balqa Applied University - Faculty of Engineering**, BS in Computer Engineering     Sept 2016 – June 2020
– Amman, Jordan

## Languages

**Arabic:** Native

**English:** Full Professional Proficiency

## Skills

**Languages:** TypeScript, JavaScript, C#

**Frontend:** Angular, RxJS, Material Design, PWA, SSR, Sass, Bootstrap

**Backend:** Node.js, Express.js, .NetCore, gRPC, TypeORM, MySQL

**AI/ML:** OpenAI API, Vercel AI SDK, LLM Applications, RAG, Agent Architectures

**Infrastructure:** Docker, Azure DevOps, CI/CD, Firebase, RabbitMQ, Git

**Testing:** Jasmine, Jest, xUnit, Automated Testing

**Tools:** GitHub, Jira, Microsoft DevOps, Azure

**Research Interests:** AI Agents, Code AI, Tool Use, Agent Reasoning & Memory

## Technical Strengths

Builder Mentality: 8 years shipping production software, from parsers to platforms

AI Agent Expertise: 2 years building production AI agents for enterprise clients

Framework Design: Created multiple developer frameworks (January, DeepAgents)

Fast Learner: Self-taught AI development in 3-6 months; built Serverize in < 1 month

Open Source: Active contributor with public portfolio of significant projects