

Brahim BIDI

JavaScript & Deno Architect | AI & Automation Systems

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EXECUTIVE SUMMARY

Hello! I'm Ibrahim Bidi, a Senior JavaScript & Deno Architect, AI Systems Engineer, and Automation Specialist with 22+ years of hands-on software development experience. From V8 engine internals to distributed microservices, autonomous AI agents, algorithmic trading bots, and real-time WebSocket platforms, JavaScript and TypeScript are my core domain.

Over the past two decades, I have architected high-concurrency systems, contributed extensively to open-source, and launched live platforms spanning AI music streaming (SunoMA), multi-account messaging automation (WMAM), AI developer browsers (NIABrowser), and algorithmic trading systems. My journey started with pioneering system tools for Windows 98/XP (Key4Arab, Tifino) and evolved into architecting scalable modern web apps, cloud runtimes, and autonomous agent infrastructure.

CORE TECHNICAL EXPERTISE

• Runtimes & V8 Internals	Deno / DenoLand / TypeScript (98%), Node.js & Async I/O (98%), V8 Engine Internals & WASM (90%)
• AI, MCP & Autonomous Agents	LLM Orchestration & AI Agents (95%), MCP (Model Context Protocol) (92%), Multi-Account & Chat Automation (96%)
• Full-Stack Frameworks & Libs	Next.js / React.js / Fresh (95%), React Native (Mobile) (92%), REST, GraphQL & Streaming APIs (95%)
• Databases & Realtime Systems	MongoDB / Redis / pushDB (95%), PostgreSQL / MySQL / SQLite (90%), WebSockets & Event Streams (96%)
• Algorithmic Trading & DApps	Quantitative Trading Strategies (92%), Exchange APIs & Order Execution (90%), Web3 & Smart Contract Automation (80%)

FEATURED PRODUCTION PROJECTS & PLATFORMS

SunoMA — Endless AI Radio & Music Studio

- Suno.ma: Endless AI procedural radio streaming music across multiple genres. — <https://suno.ma>
- SunoMA Studio: AI music creation via web, REST API, and LLM assistants over MCP. — <https://suno.homes>
- Suno-MA GitHub Repository. — <https://github.com/Zizwar/suno-ma>

WMAM — WhatsApp Multi-Account Manager & Automation

- Advanced enterprise multi-account WhatsApp management infrastructure with AI-driven smart auto-replies, message scheduling, and WebSocket real-time syncing. — <https://msn.so>

NIABrowser — AI-Powered Developer Browser

- Specialized developer browser integrating AI chat assistant, live script execution, developer tools, and workflow automation. — <https://niabrowser.vibzcode.com/>

VibzCode Pro — Cloud Workspace & IDE

- Cloud-based developer environment for rapid code prototyping, real-time testing, and cloud execution. — <https://app.vibzcode.com/>

Deno Algorithmic Trading Bot

- High-performance quantitative trading bot written in Deno/TypeScript featuring technical indicators, real-time WebSocket market streams, and automated order execution. — <https://github.com/Zizwar/deno-trading-bot>

Mushaf Mauri — Digital Quran Platform

- Modern digital Quran platform (Warsh narration) with high-fidelity audio streaming, responsive web architecture, and mobile application. — <https://mushaf.ma>

WinoScript & Pioneer Software

- WinoScript: Created an Arabic programming framework and language abstraction on JavaScript. — <https://github.com/Zizwar/winoscript>
- Tifino: Developed Tifinagh script support for Windows with 100,000+ downloads. — <https://code.google.com/archive/p/tifino/>
- Key4Arab: Developed system-level Arabic keyboard integration for Windows 98 non-Arabic editions.

TECHNICAL COMPETENCE & ARCHITECTURE EXPERIENCE

AI Systems, LLMs & Autonomous Automation

- Architected multi-agent LLM systems and custom MCP (Model Context Protocol) servers for external tools integration
- Engineered high-throughput messaging bots and multi-account automation engines using WebSockets, Puppeteer, and async queue pipelines
- Integrated generative audio, multimodal APIs, and streaming responses into low-latency production workflows
- Built conversational AI tools, prompt optimization frameworks, and self-hosted AI microservices

Backend Engineering, Runtimes & Distributed Microservices

- 22+ years mastering JavaScript/TypeScript runtimes: deep expertise in Deno, Node.js, and V8 engine execution
- Designed scalable microservices and serverless architectures with Deno Deploy, AWS Lambda, and Vercel
- Extensive database modeling and query optimization with MongoDB, PostgreSQL, SQLite, and Redis caching
- Built real-time data streaming architectures with WebSockets, SSE (Server-Sent Events), and event-driven backends
- Implemented secure authentication protocols, JWT, OAuth, rate limiting, and API gateways

Algorithmic Trading & Real-Time Financial Engineering

- Developed algorithmic trading bots in Deno & TypeScript implementing RSI, MACD, Bollinger Bands, and custom quantitative indicators
- Integrated exchange WebSocket feeds for ultra-low latency price ingestion and order book analysis
- Implemented risk management, automated stop-loss/take-profit triggers, and position sizing logic

Full-Stack Development & High-Performance Web Apps

- Engineered high-performance web applications using Next.js (SSR/SSG), React, and Fresh
- Cross-platform mobile application development using React Native and native integrations
- SEO optimization, web performance profiling (Core Web Vitals), and accessibility standards
- CI/CD automation, Git workflows, Docker containerization, and modern cloud deployment strategies