

Stelios Mavro

Full-stack Engineer - AI Integrations - Developer Tooling

Location: Athens, Greece

Mobile: +30 6976750964

Website: mavro.dev

Email: stelios@mavro.dev

LinkedIn: linkedin.com/in/steliosmavro

GitHub: <https://github.com/steliosmavro> (Some repositories are private; sample code available upon request.)



Summary

I'm a passionate full-stack software engineer with experience delivering high-quality web applications, automation tools, and scalable backend systems since 2020. I've expanded my expertise into AI integrations and developer tooling, connecting modern AI capabilities to real-world business needs through custom integrations and workflow automation.

I care deeply about clean, testable code and follow SOLID, DRY, and KISS principles to ensure long-term maintainability. Whether I'm building for a startup, enterprise, or freelance client, I take pride in translating ideas into reliable, elegant software.

Notable achievements include:

- Building and transitioning a high-impact Telegram trading bot (EzPump) into the MicroPump ecosystem after gaining rapid traction in the Solana meme coin space.
- Contributing to Nango, an open-source developer tool, where I implemented integrations with external providers, including actions and syncs, and improved the developer experience by features and fixes across multiple areas of the platform such as the Dashboard, Connect UI, API, and Docs.

I've worked across a broad tech stack including Next.js, Angular, React, NestJS, Express, PostgreSQL, MongoDB, WebSockets, GraphQL, and more — and I'm always eager to learn and improve.

Available for both full-time, part-time, and freelance collaborations.

Personal Projects & Freelance Work

Full-Stack Developer

Self-Employed / Personal Projects

2020 – Present

Over the years, built a variety of full-stack applications both for personal use and freelance clients. Projects span automation tools, crypto utilities, portfolio websites, and internal dashboards. Highlights include:

- **Contributions to Nango (2025 - Open Source Developer Tool)**
 - Contributed across multiple areas of [Nango](#) — a popular open-source platform for unified API integrations.
 - Added new sync and action endpoints in the integration-templates repo (e.g., ClickSend integration), following best practices including incremental syncing, pagination, retry logic, testing, and documentation.
 - Contributed improvements, bug fixes, features, and docs across core codebases: Dashboard, Connect UI, API, Docs, and overall Developer Experience.
 - Used internal tooling such as npx nango dryrun, Zod, Vitest, MCP server, and Cursor IDE to stay aligned with testing and validation workflows.
 - Followed Nango's conventions for integration structure, model definitions, CI/CD, and clean architecture.
- **www.ezpump.fun (2024 - 2025 - Acquired by MicroPump)** — A Telegram trading bot designed to increase volume and boost visibility for meme coins on Solana network:
 - Generates simulated volume for tokens to boost visibility on pump.fun.
 - Authenticates users via Telegram.
 - Stores users and configurations in a database.
 - Features a caching mechanism and role-based access (auth/authorization).
 - Supports Solana-based payment flows.
 - Offers pricing plans such as:
 - **Token Pass:** Unlimited bumps for one token.
 - **Service Pass:** Lifetime access for all tokens.
 - Automatically performs trades within the same blockchain transaction block to simulate volume.
 - Provides real-time analytics, notifications, and logs user behavior.
 - Generates profit via service fees on each bump.
 - Implemented dynamic price computation for users
 - Handled all database responsibilities including schema design, migrations, indexing strategies, and performance optimization.
 - Successfully transitioned to MicroPump as part of a strategic product merge, core features and users migrated to a larger platform.
 - Project continues under new brand and infrastructure, highlighting traction and product-market fit.
 - Reached 1.2K+ users via custom growth automation (comment bot), Twitter engagement, and Telegram-based community marketing.
- **Pump.fun Comment Bot (2024 - 2025 - Acquired by MicroPump)** — An automation tool designed to post engaging, hype-inducing comments on new meme coin listings on pump.fun:

- Automatically creates new users with fresh Solana wallets.
- Updates user profiles with randomized metadata to mimic human activity.
- Monitors the Solana mempool and listens for new token listings in real-time. Posts contextual comments on fresh listings within seconds of token creation.
- Uses rotating proxy servers and randomized behavior patterns to bypass anti-bot detection and rate-limiting.
- Supports dynamic comment templates with token-specific injection to maximize engagement.
- Logs token performance and comment impact metrics to refine messaging strategies.
- **MicroPump (2025 - Present)** — Advanced Telegram Bot for Token Promotion 2025 – Present
 - Successor to the EzPump project, MicroPump is a Telegram-based tool focused on expanding token visibility and trading behavior analytics for Solana meme coins.
 - Extended the architecture of EzPump into a more scalable and modular system.
 - Designed dynamic pricing models and automated bump logic tied to blockchain activity.
 - Coordinated feature rollouts and performance tuning post-migration from EzPump.
 - Ongoing enhancements focused on user growth, monetization features, and UX improvements.
- **Nextjs13-template-auth (2023)** — Google OAuth Starter Template for Devs
 - Built and sold a reusable starter template for full-stack apps using Next.js 13 (App Router). Provides built-in Google authentication, role-based access, and clean project structure.
 - Designed for developers launching MVPs or social media platforms with auth.
 - Includes login/signup, protected routes, session management, and modern folder architecture.
 - Published and maintained the project on GitHub for developer use and early adoption.
- **Other Projects:**
 - Portfolio websites.
 - Crypto trading bots.
 - Automation tools for daily tasks (e.g., notification systems, data scraping, personal dashboards).
 - Bot servers integrated with personal services to trigger custom workflows.

Technologies Used:

- **Languages:** TypeScript, JavaScript
- **Backend:** Node.js, NestJS, Express, REST APIs, WebSockets
- **Frontend:** Angular, React, Next.js 13+ (App Router), HTML, CSS, SCSS, Bootstrap, Tailwind CSS
- **Blockchain:** Solana Web3.js, SPL Token
- **Databases:** MongoDB, Mongoose, PostgreSQL
- **Authentication & Authorization:** OAuth (Google), next-auth, JWT, bcrypt

- **Bot APIs:** Telegram Bot API, Telegraf
 - **Dev Tools & Utilities:** Docker, CI/CD workflows, Git, GitHub, MCP server, Cursor IDE, Zod, npx nango, Winston, Axios, dotenv, chalk, crypto-js, class-validator, class-transformer, lodash, date-fns, nodemailer
 - **Testing/Build:** Jasmine, Karma, Vitest, Angular CLI
-

Mind Alliance (Remote – New Jersey, USA)

Full-Stack Software Engineer 2021 – 2023

Worked remotely from New Jersey, building internal SaaS platforms for Fragomen, a leading U.S. law firm specializing in immigration law. Focus was on creating scalable, modular, admin-configurable apps.

Projects:

- **IAMS (Immigration Application Management System) – Led development:**
 - Dynamic form builder for legal report generation.
 - Admins could create or configure templates, fields, rules etc.
 - Implemented scalable state management using **NgRx Store** and **Component Store** to manage form state, user sessions, and admin-configurable content across the app.
 - Integrated WYSIWYG editors (Quill, TinyMCE) for rich-text content management.
 - Implemented permission-based authentication and authorization systems.
 - Multi-user collaboration in real-time.
 - Configurable taxonomies like countries, topics, categories, and subcategories and more.
- **Covid Travel App – Sole developer:**
 - Interactive global map visualizing Covid restrictions.
 - Users could view quarantine rules by vaccination status, case numbers, border closures per country and more.
- **MindPeer (occasional work):**
 - Legal intelligence platform.
 - Pulled company data from external APIs.
 - Auto-generated business reports to surface insights for law firms.

Technologies Used:

- **Languages:** TypeScript, JavaScript
- **Backend:** NestJS, Node.js, Express, REST APIs, GraphQL, WebSockets
- **Frontend:** Angular, HTML, CSS, SCSS, NgRx (Store, Component Store, Entity, Router), Angular Material, Tailwind CSS, Quill, TinyMCE, D3.js
- **Databases:** MongoDB, Prisma
- **Authentication & Authorization:** Passport.js, JWT, CASL, bcrypt, role and permission-based access control

- **Dev Tools & Utilities:** Git, GitHub, Winston, class-validator, class-transformer, lodash, date-fns
-

InstaShop (Remote – UAE/Greece)

Software Engineer

2023 – Present

Contributed to InstaShop, the leading grocery delivery app in MENA, acquired by Delivery Hero (\$360M). Operated in a fast-paced team of 60+ developers, across multiple micro-projects.

Key Contributions:

- **Integration Team:**
 - Built APIs and endpoints for external partners.
 - Managed communication workflows for data exchange with Delivery Hero.
 - Ensured secure, scalable, real-time data flow (order events, system events).
 - Integrated with existing Kafka architecture by developing new consumers and producers to handle domain-specific events and trigger asynchronous business logic.
- **Admin Dashboard Application:**
 - Primarily backend development, with occasional frontend contributions.
 - Added new pages and features to an existing codebase.
 - Implemented automation tools, scheduled jobs, data exports, email notifications.
 - Utilized worker queues for large-scale data processing tasks.
 - Maintained stability and performance while expanding internal tools.
- **Firefighting Team Involvement:**

Acted as a core member of the internal "Firefighting" team, responsible for responding to urgent issues, production bugs, and high-priority client/internal tickets. Maintained direct communication with stakeholders to resolve problems swiftly and effectively under pressure.
- **Monitoring & Alerting:**
- Regularly monitored logs via AWS CloudWatch and received real-time error alerts through Datadog and TeamCity. Investigated suspicious activity or unexpected behavior in production to proactively identify and resolve issues.
- **Data Extraction & Reporting:**

Handled complex data extraction and manipulation tasks using MongoDB and Apache Druid. Worked across massive databases containing thousands of collections/tables and millions of documents. Ensured efficient query performance to avoid database pressure. Structured multi-query results and exported them as CSV files for business and operations teams.
- **Codebase Modernization & Architecture Improvements:**

Took initiative in updating and refactoring parts of the existing codebase to align with modern development standards and best practices. Focused on improving

architecture for better scalability, maintainability, and reusability. Introduced cleaner design patterns and optimized modules for long-term team efficiency.

Technologies Used:

- **Languages:** TypeScript, JavaScript
 - **Backend:** Node.js, Express, NestJS, REST APIs, Kafka, Worker Queues, Parse SDK
 - **Frontend:** Angular, HTML, CSS
 - **Email & Notification Systems:** Mandrill, Mailchimp
 - **Databases:** MongoDB, Apache Druid, Studio3T, Imply,
 - **Messaging & Streaming:** Kafka, Adjust
 - **Data Processing & Automation:** Cron Jobs, Scheduled Tasks, CSV Exporting
 - **Dev Tools & Utilities:** Git, GitHub, moment, lodash
 - **Monitoring & Operations:** AWS CloudWatch, Datadog, TeamCity, Log-based alerts (through slack or email)
-

Education

- **Vocational Education – Mechatronics Engineering** - *Certified by the National Organization for Certification of Qualifications (Grade: 18/20)*
 - Oct 2015 - Aug 2020
 - Grade: 18/20
 - Studied a field that combines computer science, electrical engineering, and mechanical systems. Gained hands-on experience with embedded programming, circuit design, and automation. With real-world applications in robotics, smart devices, and industrial control systems.