

Stelios Mavro

Full-stack Engineer - AI Integrations - Developer Tooling

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

Summary

Full-stack engineer since 2020, specializing in AI integrations and developer tooling. Built and sold crypto trading tools (1.2K+ users), contributed to open-source projects (Nango), and delivered enterprise SaaS at scale. Passionate about clean, testable code and turning complex ideas into elegant solutions.

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

Personal Projects & Freelance Work

Full-Stack Developer

Self-Employed / Personal Projects

2020 - Present

Built a variety of full-stack applications for personal use and freelance clients, spanning automation tools, crypto utilities, developer tools, and SaaS platforms. Highlights include:

- **MavroChat (2025)** — Open-Source AI-Powered Chat Platform for Developers:

- Built and open-sourced a ChatGPT-like platform specifically designed for developers with code-aware features.
 - Implemented real-time streaming responses, syntax highlighting, and code execution capabilities.
 - Designed modular architecture supporting multiple AI providers (OpenAI, Claude, etc.).
 - Created intuitive UI with dark mode, conversation history, and export functionality.
 - Built with Next.js 15, TypeScript, Tailwind CSS, and Framer Motion.
 - Focused on developer experience with keyboard shortcuts, markdown support, and API integration tools.
 - Live at mavro.chat (<https://mavro.chat>) - try it out!
- **MavroDev (2025) – Personal Portfolio & Blog Platform:**
 - Built a modern portfolio website showcasing projects, blog, and professional experience.
 - Implemented MDX-based blog system with syntax highlighting, reading time, and category filtering.
 - Created responsive design with dark/light theme support and smooth Framer Motion animations.
 - Architected as part of a Turborepo monorepo with shared UI component library.
 - Set up CI/CD with GitHub Actions, conventional commits, and automated quality checks.
 - Live at mavro.dev (<https://mavro.dev>) serving as both portfolio and technical demonstration.
- **Contributions to Nango (2025 - Open Source Developer Tool)**
 - Contributed across multiple areas of [Nango](https://github.com/NangoHQ) (<https://github.com/NangoHQ>) – 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.
- **Crypto Trading Bot Ecosystem (2024 - 2025 - Acquired by MicroPump)** – Suite of Solana trading tools that gained 1.2K+ users:
 - **EzPump.fun** - Telegram trading bot for Solana meme coins:
 - Generated simulated volume to boost token visibility on pump.fun.
 - Implemented Telegram authentication, Solana payment flows, and role-based access.
 - Designed flexible pricing tiers: Token Pass (single token) and Service Pass (all tokens).
 - Built real-time analytics, notifications, and dynamic pricing algorithms.
 - Handled complete database architecture including schema design, migrations, and performance optimization.
 - **Comment Bot** - Growth automation tool:
 - Automated engagement on new token listings with contextual comments.
 - Built anti-detection system with rotating proxies and randomized behavior patterns.
 - Monitored Solana mempool for real-time token creation events.
 - Generated fresh wallets and user profiles to maintain authenticity.
 - **Token Bundler** - Advanced blockchain automation:
 - Implemented bundler that creates tokens on pump.fun's Solana program and executes first buy in same transaction.
 - Generates multiple wallets and coordinates simultaneous purchases within single transaction block.
 - Built one-click sell functionality for rapid token liquidation.
 - Ensures creator gets first entry advantage through atomic transaction execution.
 - **Growth & Acquisition:**
 - Reached 1.2K+ users through custom automation and community marketing.

- Successfully transitioned entire ecosystem to MicroPump after acquisition.
- Continues operating under new brand, validating product-market fit.
- **Nextjs13-template-auth (2023)** – Open-Source Google OAuth Starter Template:
 - Built and open-sourced 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.
 - Includes login/signup, protected routes, session management, and modern folder architecture.
 - Published on GitHub to help developers quickly bootstrap authenticated applications.
- **Other Projects:**
 - Portfolio websites for clients.
 - Crypto trading bots and analytics tools.
 - Automation tools for daily tasks (notification systems, data scraping, personal dashboards).
 - Bot servers integrated with personal services to trigger custom workflows.

Technologies Used:

- **Frontend:** React 19, Next.js 15, Angular, TypeScript, Tailwind CSS 4, SCSS, Bootstrap, Framer Motion
- **Backend:** Node.js, NestJS, Express, REST APIs, GraphQL, WebSockets
- **Databases:** PostgreSQL, MongoDB, Mongoose
- **Blockchain:** Solana Web3.js, SPL Token
- **AI/ML:** Vercel AI SDK, OpenAI API, Claude API
- **Content:** MDX, gray-matter, react-markdown, rehype, remark
- **Authentication:** OAuth (Google), next-auth, JWT, bcrypt
- **Bot Development:** Telegram Bot API, Telegraf
- **DevOps & Tools:** Turborepo, Docker, CI/CD, GitHub Actions, Git, MCP server, Cursor IDE
- **Testing:** Vitest, Jasmine, Karma, Angular CLI

- **UI Libraries:** Radix UI, CVA, clsx, tailwind-merge
 - **Code Quality:** ESLint, Prettier, Husky, Commitlint, Syncpack
 - **Libraries:** Zod, Winston, Axios, lodash, date-fns, class-validator
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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.
- **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.
- **MindPeer (occasional work):**

- Legal intelligence platform.
- Pulled company data from external APIs.
- Auto-generated business reports to surface insights for law firms.

Technologies Used:

- **Frontend:** Angular, TypeScript, SCSS, NgRx (Store, Component Store, Entity, Router), Angular Material, Tailwind CSS, D3.js
 - **Backend:** NestJS, Node.js, Express, REST APIs, GraphQL, WebSockets
 - **Databases:** MongoDB, Prisma
 - **Rich Text:** Quill, TinyMCE
 - **Authentication:** Passport.js, JWT, CASL, bcrypt, role and permission-based access control
 - **Libraries:** Winston, class-validator, class-transformer, lodash, date-fns
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InstaShop (Remote – UAE)

Software Engineer

2023 - 2025

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:

- **Backend:** Node.js, Express, NestJS, REST APIs, Kafka, Worker Queues, Parse SDK
- **Frontend:** Angular, TypeScript, CSS
- **Databases:** MongoDB, Apache Druid, Studio3T, Imply

- **Messaging & Streaming:** Kafka, Adjust
 - **Email Systems:** Mandrill, Mailchimp
 - **Monitoring:** AWS CloudWatch, Datadog, TeamCity, Log-based alerts
 - **Data Processing:** Cron Jobs, Scheduled Tasks, CSV Exporting
 - **Libraries:** moment, lodash
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Education

- **Vocational Education - Mechatronics Engineering**
 - Oct 2015 - Aug 2020
 - Grade: 18/20 (Certified by the National Organization for Certification of Qualifications)
 - 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.