# Stelios Mavro

**Full-Stack Engineer - AI Integrations - Developer Tooling**

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| 5+ | 1.2K+ | 5+ | 10+ |
|---|---|---|---|
| YEARS | USERS | PROJECTS | OS PRS |

## Professional Summary

Full-stack engineer since 2020, specializing in AI integrations and developer tooling. Passionate about open-source, clean code, and creating seamless experiences that empower developers. Built MavroChat (ChatGPT clone for developers), created and sold high-impact Telegram trading bot (EzPump) serving 1.2K+ users, contributed to Nango (popular open-source developer tool), and delivered enterprise SaaS at scale. Turning complex ideas into elegant solutions. Available for full-time, part-time, and freelance collaborations.

## Experience

### Technical Consultant
**Jun 2025 - Present**

MicroPump

Providing ongoing technical consultation and development services after the acquisition of my EzPump bot ecosystem. Working on scaling infrastructure and implementing new features.

**Post-Acquisition Integration**

- Extended the architecture of EzPump into a more scalable and modular system
- Developed advanced Token Bundler for pump.fun Solana program - creates tokens and executes first buy in same atomic transaction, ensuring creator gets first entry advantage
- Engineered multi-wallet coordination system that generates multiple wallets and orchestrates simultaneous token purchases within single transaction block
- Built one-click sell functionality enabling rapid token liquidation through atomic transaction execution
- Implemented anti-MEV protection and transaction priority optimization for reliable execution in high-traffic conditions
- Created automated wallet management system with secure key generation and transaction signing
- Ongoing enhancements focused on user growth, monetization features, and UX improvements
- Currently serving 3.6K+ active users

`Node.js` `Express` `TypeScript` `Solana Web3.js` `Node.js Telegram Bot API` `MongoDB` `Mongoose`

### Software Engineer
**Oct 2023 - Jun 2025**

InstaShop • Dubai, UAE

Contributed to the leading grocery delivery app in MENA, acquired by Delivery Hero ($360M). Operated in a fast-paced team of 60+ developers.
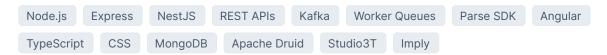
### Integration Team

- 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

### Admin Dashboard Application

- Added new pages and features to 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

- Responded to urgent issues, production bugs, and high-priority tickets
- Maintained direct communication with stakeholders
- Monitored logs via AWS CloudWatch and received real-time alerts
- Handled complex data extraction using MongoDB and Apache Druid

`Node.js` `Express` `NestJS` `REST APIs` `Kafka` `Worker Queues` `Parse SDK` `Angular` `TypeScript` `CSS` `MongoDB` `Apache Druid` `Studio3T` `Imply`

## Full-Stack Software Engineer                    `Jun 2021 - May 2023`
Mind Alliance • New Jersey, USA

Built internal SaaS platforms for Fragomen, a leading U.S. law firm specializing in immigration law.

### IAMS (Immigration Application Management System)

- Admins could create or configure templates, fields, rules etc.
- Implemented scalable state management using NgRx Store and Component Store
- Integrated WYSIWYG editors (Quill, TinyMCE) for rich-text content
- Implemented permission-based authentication and authorization systems
- Multi-user collaboration in real-time
- Configurable taxonomies like countries, topics, categories

### Covid Travel App

- Interactive global map visualizing Covid restrictions
- Users could view quarantine rules by vaccination status
- Displayed case numbers and border closures per country

### MindPeer

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

`NestJS` `Node.js` `Express` `REST APIs` `GraphQL` `WebSockets` `Angular` `TypeScript` `SCSS` `NgRx` `Angular Material` `Tailwind CSS` `D3.js` `MongoDB` `Prisma`

# Projects

## Successful Exits

### Crypto Trading Bot Ecosystem
**1.2K+**

Open-Source Suite of Solana trading tools that gained 1.2K+ users

Acquired by MicroPump

- ezpump.fun - Telegram trading bot for Solana meme coins
- Generated simulated volume to boost token visibility on pump.fun
- Comment Bot - Automated engagement tool that posts contextual comments on new token listings
- Token Bundler - Creates tokens and executes first buy in same transaction
- Built anti-detection system with rotating proxies and randomized behavior
- Built active Twitter/X presence https://x.com/EzPumpFun for updates and community engagement
- Reached 1.2K+ users through custom automation and community marketing

`TypeScript` `Solana Web3.js` `MongoDB` `NestJS`

## Open Source Impact

### MavroChat

Open-Source AI-Powered Chat Platform for Developers

- Built open-source AI chat platform optimized for focused developer workflows and quick code assistance
- Implemented real-time streaming responses with sub-50ms latency using Server-Sent Events
- Integrated multiple AI providers (OpenAI GPT-4o/3.5, Claude 3.5 Sonnet/Haiku) with seamless switching
- Designed extensible tool system with type-safe Zod schemas for custom developer functions
- Added sustainable rate limiting at the edge to maintain generous free tier while preventing abuse
- Implemented Bring Your Own Key (BYOK) feature with secure browser-based storage for unlimited usage

`Next.js 15` `TypeScript` `Generative AI` `Monorepo`

### Nango Contributions

Open Source Developer Tool Contributions

- Built full integration support for external provider (ClickSend), including syncs, actions, and configuration
- Deep-dived into distributed architecture: Kubernetes/Helm deployments, AWS ECS, Redis queues, ElasticSearch logging
- Proactively identified and solved user pain points from Slack discussions, often with PRs ready before issues were triaged
- Developed direct working relationship with CTO, providing solutions with user impact analysis and implementation strategies
- Contributed improvements across full stack: Dashboard (React), API (Express), infrastructure configs, and documentation
- Mastered advanced integration patterns: configuration-based syncs, event-based scripts, and enterprise deployment

`Express` `Next.js` `PostgreSQL` `OAuth`

### MavroDev

Open-Source AI-Enhanced Portfolio & Blog Platform

- Built a modern portfolio website showcasing projects, blog, and professional experience
- Integrated AI-powered portfolio assistant using OpenAI GPT-3.5 for natural conversation about my experience
- Implemented real-time streaming responses with intelligent context-aware tools for querying projects and skills
- Added Google Calendar integration allowing visitors to check availability and schedule meetings directly through AI chat
- Added rate limiting and comprehensive error handling for sustainable AI feature usage
- 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
- Integrated contact form with email sending functionality using Resend API
- 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

`Next.js`  `AI Integration`  `MDX`  `Monorepo`

### Next.js Auth Template

Open-Source Google OAuth Starter Template For Developers

- Built and open-sourced a reusable starter template for full-stack apps using the newly released 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

`Next.js`  `NextAuth.js`

## Technical Skills

**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, Redis, Prisma, ElasticSearch

**Blockchain:** Solana Web3.js, SPL Token

**AI/ML:** Generative AI, Vercel AI SDK, OpenAI API, Claude API, MCP server

**DevOps & Tools:** Kubernetes, Docker, AWS ECS, Helm, CI/CD, GitHub Actions, Turborepo, Git

**Libraries & Utilities:** Zod, Winston, lodash, date-fns, class-validator, class-transformer, axios, Puppeteer, dotenv

**Testing:** Vitest, Jasmine, Karma, Angular CLI

## Education

**Vocational Education - Mechatronics Engineering**

Oct 2015 - Aug 2020 • 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.