Stelios Mavro

Full-Stack Engineer - AI Integrations - Developer Tooling

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5+ YEARS	1.2K+ USERS	4+ PROJECTS	10+ CONTRIBUTIONS

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.

Experience

Technical Consultant
Jun 2025 - Present

at MicroPump

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

- 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` `MongoDB`

Software Engineer
Oct 2023 - Jun 2025

at 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

`Node.js` `Express` `NestJS` `Angular` `TypeScript` `MongoDB`

Full-Stack Software Engineer
Jun 2021 - May 2023
at 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

`NestJS` `Node.js` `Express` `Angular` `TypeScript` `MongoDB`

Freelance Full-Stack Developer
Mar 2020 - May 2021

Built websites and landing pages for small businesses and local clients. Focused on responsive design and basic SEO.

Client Projects

- Created responsive websites and landing pages for 10+ small businesses
- Implemented SEO best practices and meta tags
- Built contact forms and integrated Google Analytics
- Customized templates and created clean, professional designs
- Provided maintenance and content updates for clients

`Node.js` `Express` `React` `JavaScript` `MongoDB`

Contributions

Nango - Open Source Developer Tool

Contributed across multiple areas of Nango — a popular open-source platform for unified API integrations.

- 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

Projects

EzPump

Comprehensive ecosystem of trading bots for Solana including volume generation, growth automation, and token bundling. Successfully acquired by MicroPump after reaching 1.2K+ active users.

Successfully acquired in June 2025. Entire ecosystem transitioned to new ownership.

- 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`

MavroChat

A lightweight, open-source AI chat platform specifically designed for developers. Focuses on quick code reviews, debugging help, and focused development without the complexity of full codebase analysis.

- 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`

MavroDev

Open-source modern portfolio website featuring an AI-powered assistant that helps visitors learn about my experience through natural conversation. Built with MDX support and beautiful animations.

- 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 Servers, Claude Code, Cursor, GitHub Copilot

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

Testing: Vitest, Jasmine, Karma, Angular CLI

Education

Vocational Diploma in Mechatronics

Oct 2015 - Aug 2020 • Grade: 18/20 • Nationally Certified

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.