



Stelios Mavro

Full-Stack Engineer - AI Integrations - Developer Tooling

Athens, Greece

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• [GitHub](#)

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5+

YEARS

1.2K+

USERS

5+

PROJECTS

10+

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 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, 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.