

Petros Lambropoulos

Independent Systems Consultant | Agentic Systems & Production AI

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Manifesto

Focus: I work on AI systems where abstractions start to fail: bridging the gap between fragile prototypes and stable, deployable reality.

Service: Partnering with startups and research-driven teams on agentic architectures, evaluation frameworks, and AI infrastructure that survives real-world constraints.

Execution: Translating system-level uncertainty into concrete tradeoffs for leadership while mentoring teams to ship with confidence.

Promise: Pragmatic architecture, rigorous evaluation, and a refusal to ship vaporware.

Impact Dashboard

Metric	Stat	Mic Drop
Resume throughput cared for	50K+/day	0.5B-record corpus kept fed, cleaned, and searchable.
Generative PoCs shipped	3 first-to-market	Job posts, interview questions, and resume parsing that won exec backing.
Onboarding time shaved	50%	Containerised ML stack made customer launches twice as fast.
Incident response missions	Multi-million-request DDoS neutralised	Custom Cloudflare mitigation + resilience roadmap delivered.

Mic Drop TL;DR: High-scale data, GenAI story arcs, polished release discipline—yes, still answering Slack at midnight.

Impact Experience

Independent Systems Consultant (September 2024–Present)

Partnering with startups and research teams on production SaaS and AI systems—solving for agents, evaluation, and system architecture beyond the demo stage.

The Playbook: - Designing and stabilising agentic systems for real-world deployment - Architecting SaaS platforms from whiteboard to production-ready - Evaluation, reliability, and failure-mode analysis under ambiguous requirements - Translating cutting-edge AI research into deployable engineering systems

Selected Receipts: - **Hedera / CNO:** Architected compliance-first tokenization and trading infrastructure. - **eth-llm-poc:** Delivered an LLM-powered verification pipeline bridging EIP obligations and execution-specs. - **Dikaio.ai:** Guided the transition of a legal-tech RAG prototype into a production engine. - **Rythm Hoppers:** Built domain-specific SaaS integrating Greek regulatory systems (myDATA, POS). - **University of Piraeus:** Conducted applied ML research on credit-risk modelling. - **Rooted Layers:** Authoring a technical publication on AI systems, agents, and infrastructure.

Workable – Senior Software Engineer, NLP Team (2022–2024)

What stayed real (besides caffeine): Built and operated Python ML microservices powering Workable’s AI-driven candidate experiences. Ran them on AWS EKS with Kubernetes + Helm, choreographing RabbitMQ and Kafka workflows across 10+ services while tens of thousands of resumes per day flowed in from a 0.5-billion-record corpus.

Lit the genAI fuse: Brought Workable’s first generative AI experiments to life—job-post generation, interview-question drafting, and resume parsing—because apparently the robots should handle job descriptions now. Demoed them company-wide and walked execs straight into production roadmaps.

Product + ops handshake: Partnered tightly with product and design to take prototypes from “sparkly deck” to “pager-safe feature.” Authored evaluation, deployment, and monitoring standards so data scientists, engineers, and PMs shipped with swagger.

Silent migrations: Drove large-scale backfill migrations without service disruption, keeping hiring teams blissfully unaware and my stress ball very aware.

NannyML – Senior Software Engineer (2021–2022)

Reality check (startups are spicy): Embedded with a six-person founding team to hunt product-market fit for ML monitoring.

Prototype drumbeat: Piloted monthly prototypes with research partners—each sprint delivering a fresh take on drift detection and alerting for real customer datasets, plus a new excuse for celebratory croissants.

Container-first delivery: Containerised the Python services on Amazon EKS with Helm, lifting reliability and cutting customer onboarding time in half so demos stopped sweating.

Ship-shape foundations: Championed CI/CD, testing depth, and observability from day one, gifting sales the confidence to land the startup’s first deals (and stop selling vaporware).

Orfium – Senior Backend Engineer (2020–2021)

The gig (cue synthwave): Led Django/PostgreSQL services handling music-licensing operations.

Shipping without drama: Kept everything twelve-factor and Heroku-friendly so releases stayed boring—in the Grammy category for Reliability.

Analytics unlocked: Upgraded APIs and observability so support teams spent less time firefighting and business finally saw actionable analytics without tarot cards.

Encode S.A. – Team Lead - Big Data Engineer (2015–2020)

Scale story: Architected a PySpark + Elasticsearch platform able to process 100K-user network datasets inside a single business day, validated with heavy-load drills and minimal crying.

Throughput x10: Optimised the Python/MySQL pipeline with multiprocessing and Redis caching, stretching throughput from 1K to 10K users and deleting chronic bottlenecks from the incident log (may have fist-bumped the server rack).

Mentor-analyst bridge: Mentored junior engineers and paired with security analysts to turn threat intel

reports into production-grade detection pipelines—translation service between hoodie and suit cultures.

Neuropublic – Python Software Developer, Web Applications (2014–2015)

Precision agritech hipster: Built precision-agriculture Python services that modelled crop returns using environmental and nutritional data—before “agritech” trended on LinkedIn.

Skyscanner – Intern Software Engineer (March 2013 – August 2013)

Holiday-load tested: Owned Python APIs and scraping pipelines that kept ingestion services running during peak travel demand, extending core coverage when the world clocked out and interns apparently ran the sky.

Consulting & Selected Engagements

Dikaio.ai (Athens legal-tech rocketship; 2024): Coached the soon-to-be CTO through a RAG + OpenAI blueprint that birthed their first Greek-law doc prototype and nudged investors into greenlighting the pre-seed round—legalese, but make it AI-chic.

Brain Metrics Initiative (2022): Led incident response for a multi-million-request DDoS surge, scripted Cloudflare mitigations, and wrote the resilience roadmap + postmortem everyone circulated (yes, with memes).

Langaware (2021): Prototyped a BERT-based solution for the Boston Theft Challenge and walked the CEO through how the model unlocked their applied NLP vision, featuring dramatic dashboards.

Beat (2020): Built a taxi-demand forecasting prototype for Lima so the AI/Data team could see ride-hailing signals before the rush hour spike; traffic jams fear my scatter plots.

Spotlight Moments

Delivered a flash talk on intrusion detection with NLP at the Cybersecurity Social during ICLR 2020; yes, there was live dramatisation of botnets.

Regular at Python and NLP meetups in Athens and Edinburgh (AUEB NLP, PyData Athens, Ministry of Testing Athens, Edinburgh Meetups, ICLR circuit) because apparently I collect event badges like Pokémon.

Long-running mentor for engineers stepping into ML and product roles—fewer cold starts, more demos shipped, extra coffee acquired.

Learning Power-Ups

MSc, Computer Science – University of Edinburgh (2011–2012): Thesis with distinction on parallel MapReduce operators; coursework in parallel algorithms, NoSQL databases, and cloud-scale data processing; also earned a minor in surviving Scottish weather with espresso.

BSc, Physics – University of Athens (2007): Thesis on programming digital signal processors; foundation in applied physics plus computer science fundamentals, because why choose between particles and packets?

Erasmus Exchange – University of Bonn (2004–2005): Brought back German efficiency, pretzel-level focus, and a lifelong respect for punctual trains.

Professional Development: Athens NLP Summer School (2019); Big Data Architecture with Apache Spark (2018); Coursework in Electronic Automation & Information Systems at University of Athens (2007–

2009). Collecting certificates like Pokémon, deploying them like Helm charts.

Signature Toolbelt

Product & Leadership: Stakeholder alignment, storytelling for execs, cross-functional leadership, mentoring, incident comms—translation layer between panic and plan.

GenAI & MLOps: Generative AI delivery, LangChain, OpenAI APIs, Pinecone, MLflow, NLP systems, evaluation frameworks; optional hype-to-reality adapter included.

Data Platforms: AWS (EKS, EC2, S3, RDS), Kubernetes, Terraform, Airflow, Redis, Elasticsearch, PostgreSQL, MySQL—basically the alphabet soup of uptime.

Software Stack: Python, Django, FastAPI, Flask, PySpark, SQL, Pandas, NumPy, PyTorch, TypeScript, React; batteries, opinions, and unit tests included.

Delivery Excellence: CI/CD automation, microservices architecture, scalable data pipelines, observability, experiment tracking, incident response—plus a playlist for Sev1s.

Available for AI SaaS missions, resilience interventions, and unapologetically direct product feedback.