

# Petros Lambropoulos

**Independent Systems Consultant | Agentic Systems & Production AI**

**Athens, Greece**

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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.