

Stratos Louvaris

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SUMMARY

AI Engineer with 5+ years of Python backend development and 2+ years building production GenAI applications. I design and deploy agentic AI systems, RAG pipelines, and LLM-powered backends that combine retrieval systems, vector databases, and custom APIs. My work focuses on production reliability, security-first architecture, and measurable performance. I collaborate closely with product managers and cross-functional teams to ship end-to-end solutions, and I write about AI implementation at blog.stratoslouvaris.gr.

EXPERIENCE

Senior AI Engineer — GenAI & Agentic Systems — Bizeli LTD

May 2023 – Jul 2025

Sofia (Remote)

- Designed and deployed production GenAI applications combining LLMs, vector databases, and semantic retrieval to deliver structured answers for complex business queries
- Built a secure RAG-based agent (iAgent) with multi-format document processing (PDF, DOCX, TXT), private vector storage, and user-controlled data access in an isolated environment
- Implemented agentic architectures using AI orchestration frameworks (Pydantic AI, LangGraph) with built-in security boundaries and error handling
- Set up LLM observability and monitoring using LangFuse for tracing, evaluation, and continuous improvement of GenAI applications
- Collaborated with product stakeholders and cross-functional teams to define requirements, design solutions, and deliver features on time
- Managed CI/CD pipelines with GitHub Actions for automated testing, deployment, and quality assurance of AI backend services

AI Automation Engineer — Backend & Infrastructure — Bizeli LTD

May 2022 – May 2023

Sofia (Remote)

- Built Python backend services for automated knowledge management, data processing pipelines, and reporting systems
- Created reporting tools to monitor operational metrics, performance indicators, and resource utilization across sales and warehouse operations
- Used data analytics to forecast trends, optimize workflows, and improve system efficiency
- Managed and optimized server infrastructure (Docker, Linux) for scalable, reliable data processing with security-first configuration

E-commerce Optimization & Business Intelligence Specialist — E-smokers

Aug 2020 – Present

Thessaloniki

- Built Python backend solutions to optimize the e-commerce platform, improving online operations and customer experience
- Developed comprehensive reporting systems tracking employee performance, business revenue, and warehouse inventory levels
- Integrated AI-assisted tools for product categorization and customer support using LLM APIs
- Collaborated with cross-functional teams including marketing, operations, and warehouse management to deliver data-driven improvements

Mobile App Developer — Freelance

2021 – 2023

Thessaloniki

- Developed mobile applications handling full software development lifecycle from requirements to deployment
- Worked directly with stakeholders to translate business needs into functional features

Thessaloniki

- Managed store operations, team coordination, and customer service standards
- Built strong client relationships and consistently met performance targets

SKILLS

GenAI & LLMs: LLM Integration & Prompt Engineering, RAG Systems & Semantic Retrieval, Vector Databases, Agentic Architectures, Pydantic AI, LangGraph, LLM Observability (LangFuse)

Backend Development: Python, REST APIs, Data Pipelines, TypeScript, Supabase, PostgreSQL

Infrastructure & Cloud: Docker, AWS (EC2, S3), Linux Administration, Proxmox, CI/CD (GitHub Actions), Self-Hosted Infrastructure

AI & Data: NLP, Predictive Analytics, Data Analysis & Visualization, Model Context Protocol (MCP), n8n Workflow Automation

Collaboration & Process: Cross-functional Team Collaboration, Code Reviews, Technical Documentation, Agile Development, Git

PROJECTS

Secure RAG AI Agent — Production GenAI Application

End-to-end production AI agent system with multi-format document processing, vector storage, semantic retrieval, and user-controlled data access. Security-first design with complete data isolation and LLM observability.

- Combines LLMs, retrieval systems, and custom APIs in a secure, isolated environment
- Handles PDF, DOCX, TXT documents with vector embedding and semantic search
- Monitored with LangFuse for tracing, evaluation, and continuous improvement

Self-Hosted AI Infrastructure (blog.stratoslouvaris.gr/my-personal-server/)

Enterprise-level server infrastructure running Docker, Proxmox, and cloud services. Hosts production AI workloads, blog, and applications.

- Runs LLM inference, vector databases, and application backends
- Full stack: containerization, DNS filtering, VPN, monitoring

CERTIFICATIONS

Generative AI Leader — Google Cloud (2024)

AI Applications in Organizations and Businesses — Aristotle Certification (ACTA) (Jan 2026)

Claude Code in Action — Anthropic (Jan 2026)

Executive E-commerce Certification — Athens University of Economics and Business (AUEB) (2024)

EDUCATION

Automation Engineering (TEI) — International Hellenic University — Sindos Campus

2006

Minor in Microcontrollers & Robotics

Computer and Network Engineering — 1st TEE of Kalamaria

2003 – 2006

Minor in Data Collection, Transfer and Control