Pasieka Manuel

AI Consultant & Solution Architect | AI Agent Specialist

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Profile

I help DevOps teams and organizations turn AI concepts into production-ready systems.

My strength lies in bridging the gap between cutting-edge AI research and practical software delivery — enabling teams to build reliable, scalable AI products faster and with less risk.

As an AI Solution Architect & Consultant with over 18 years of hands-on experience, I focus on designing secure, high-impact AI platforms for enterprises — particularly AI Agent systems based on LLM and RAG workflows — while ensuring robust data protection and governance compliance.

Core Competencies

AI Strategy & Consulting
Executive guidance • AI use case discovery • Feasibility & ROI analysis • Responsible AI & Data governance • AI adoption roadmap

Architecture & Engineering
AI agent frameworks (MS Copilot Studio, Pydantic Agents, LangChain) • LLM & RAG systems • Model Context Protocol (MCP) • Vector databases (Qdrant, MS AI Search) • Redis • Model fine-tuning & serving (axolothl, unsloth, vLLM, TGI) • Cloud-native & scalable microservice architecture • FastAPI • Python • R • Matplotlib • Rust

MLOps & Cloud
AWS • Azure • Kubernetes • Docker • Terraform • SageMaker • MLFlow

Data Engineering & Infrastructure
Data pipelines • Workflow orchestration • Spark • Airflow • OpenTelemetry

Leadership & Team Enablement
Tech leadership • Mentoring & training • Outcome-focused product development • Cross-functional collaboration

Selected Projects & Consultancy Engagements

Misumi Europe GmbH & Motius GmbH – AI Engineer (07/2025 – Present)

Designing and building a next-generation NLP platform to accelerate customer service tickets. Through intelligent request analysis and routing, reducing average customer query response time by 30%.

- Architected a hybrid NLP system combining Large Language Models (LLMs) with traditional NLP pipelines for robust, explainable results.
- Developed request classification and routing mechanisms to accelerate customer support teams in handling customer queries faster and more accurately.
- Optimized LLM based data extraction and classification with context engineering.
- Integrated the platform into customer service processes, reducing response times, and enhancing workforce efficiency.

CANCOM AUSTRIA AG – AI SOLUTION ARCHITECT (05/2024 – 07/2025)

Leading the design and implementation of a multi-tenant AI Agent platform for enterprises. Enabling employees and customers to access company knowledge through chat, while ensuring data governance and compliance.

- Lead architect of an AI agent platform for enterprise knowledge management powered by LLMs and RAG.
- Designed and implemented an extensible Python-based agent framework.
- Architected retrieval pipelines with Azure AI Search for secure, high-performance access.
- Built customer-specific RAG workflows and integration with enterprise systems.
- Mentored junior developers and shaped team best practices.

Kapsch TrafficCom AG – AI Consultant (05/2024 – 12/2024)

Accelerating innovation initiatives with technical and strategic advice on how to apply generative AI to the creation of requests for proposals (RPF).

- Acted as a trusted advisor to C-level executives, translating business needs into technical roadmaps and presenting ROI analyses for AI investment.
- Strategic consulting on LLM integration in business processes.
- Evaluated feasibility and ROI of LLM-driven prototypes.
- Identified high-impact automation opportunities.
- Proposed AI use cases to modernize workflows and optimize costs.

Pallas – Founder (06/2023 – 05/2024)

Designing, Developing and advertising a knowledge management platform leveraging RAG for secure enterprise document intelligence.

- Developed a containerized microservice architecture for on-prem/VPC deployment.
- Integrated multiple knowledge bases (Confluence, SharePoint, File Servers).
- Implemented hybrid search with query/document expansion.
- Optimized open-source LLMs for enterprise Question & Answering.

Siemens AG & Motius GmbH – Tech Lead & Data Engineer (04/2022 – 04/2025)

Leading the development of a cloud-based spare part observability platform for Siemens customers.

- Re-architected the data processing backend to improve reliability.
- Built a multi-tenant scale-to-zero architecture to optimize cloud costs.
- Enhanced data models and database access for performance gains.

CARIAD – Tech Lead & Data Engineer (04/2022 – 06/2023)

Developed an analytics platform for extracting insights from voice-based customer interactions.

- Speech-to-text pipeline applying NLP models for topic/entity extraction.
- Service monitoring and observability using elastic.
- Delivered Tableau dashboards to support business analysts with real-time insights.

Brantner Digital Solutions GmbH – AI Architect (05/2022)

Designed and prototyped a dataset manifest and MLFlow integration for tracking datasets and retraining models. Enabling the comparison of model performance over multiple model versions and datasets.

mySugr GmbH – AI Consultant (03/2023 – 06/2023)

Giving workshops and talks about LLM fundamentals and possible applications.

- Trained employees on LLM fundamentals.
- Designed LLM-based process automation PoCs.
- Conducted feasibility and impact studies for scaling AI solutions.

Professional Experience

MOSTLY.AI – Senior Machine Learning Engineer (06/2020 – 04/2022)

- Developed the synthetic data generation engine protecting privacy while maintaining data utility.
- Designed and improved encoding types for structured data.
- Built internal tooling for reproducible ML training.
- Delivered customer PoCs with technical guidance and product expertise.
- Created ML-focused training material and mentored junior scientists.

Craftworks GmbH – Data Scientist (01/2020 – 04/2020)

- Delivered data science projects across industries, focusing on applied machine learning and customer needs.

Vienna Biocenter Core Facilities – Scientific Software Engineer (06/2012 – 10/2019)

- Developed software platforms for neuroscience research.
- Built data analysis pipelines for neuronal activity and behavior classification.
- Designed hardware control software for experiments.
- Created data visualization and network analysis tools.

Universidad Politécnica de Valencia – Research Assistant (09/2011 – 10/2012)

- Develop and test a simulation environment controlled by a stationary replica of an autonomous vehicle.

Adaptivia GmbH – Embedded Systems Engineer (06/2007 – 09/2010)

- Designed low-power SoC embedded systems for underground wireless sensor networks.

Entrepreneurship & Leadership

- CEO – Pasieka AI Solutions GmbH (2024 – Present): Providing AI consultancy and tailored solutions with a focus on secure LLM adoption.
- Founder & Host – Austrian Artificial Intelligence Podcast (2021 – Present): Showcasing academia & industry AI innovations.
- Leadership Programs: Austrian Startups ELP (2023–2024), Founders Lab (2023).

Publications & Talks

- Handbook of Data Science and AI, Ch. 8: Machine Learning Security (2024).
- Speaker – Vienna DataScience Meetup (2025): Knowledge-based Systems from Q/A to AI Agent Platforms.
- Speaker – Vienna DataScience Group (2022): CyberSec4ML: Cybersecurity Aspects in Model Training.

Education

- MSc Artificial Intelligence – Universidad Internacional de La Rioja, Spain (2018–2019)
- MSc Parallel & Distributed Computing – Universidad Politécnica de Valencia, Spain (2010–2012)
- BSc Computer Science – Technical University of Vienna, Austria (2005–2009)

Certifications

- AWS Certified Cloud Practitioner
- CompTIA Security+
- Google Cybersecurity

Available for freelance and consulting engagements. Let's discuss your AI challenges.

contact@pasieka.ai