BAHRAM MEHDI MARAVANDI

Senior Software Engineering Manager

INFO

📞 +49 1523 7147467

✉️ bahi@hey.com

in linkedin.com/in/bahrammaravandi

📍 Berlin, Germany

TECHNICAL SKILLS

AI/ML:
LLMs (OpenAI, LlamaIndex, LangChain, HuggingFace), NLP (transformers, embeddings, semantic search), Agentic AI, PyTorch, TensorFlow, FAISS, RAG architectures, MLOps (CI/CD for ML, monitoring, observability).

Backend & Cloud:
Python, C#, AWS, Azure, Kubernetes, Docker, CI/CD pipelines, distributed systems, event-driven architectures, microservices, mySQL, PostgreSQL.

Frontend:
Angular, React, TypeScript

SUMMARY & CAREER HIGHLIGHTS

Senior Engineering Manager with 25+ years of leading global engineering organizations, and driving AI/LLM innovation since 2022. Expertise in cloud-native architectures (AWS, Azure), distributed systems, and modern AI/ML approaches including LLMs, NLP (transformers, embeddings, semantic search), and agentic AI frameworks (LangChain, LlamaIndex, OpenAI, HuggingFace). Familiar with PyTorch and TensorFlow for prototyping and model evaluation.

Outcome-driven leader: I set strategy via OKRs, improve delivery with DORA metrics, and guide cross-functional squads of backend, frontend, and ML engineers. Experienced in customer-facing AI adoption and deployment discussions, ensuring solutions integrate seamlessly with enterprise stacks. Committed to ethical AI, continuous learning, and translating complex technology into measurable business value.

Leadership & Process Achievements

Transformed engineering culture from task/output-orientation to value/outcome orientation using OKRs: aligned teams on Objectives & Key Results, prioritized initiatives by business impact, reducing low-impact work and increasing strategic visibility.

Built engineering performance dashboards: increased deployment velocity by ~200%, reduced delivery lead times by ~40%.

Applied quantitative methods to optimize development practices: introduced XP/test driven/continuous delivery practices, cutting production defects by ~40%.

Led cross-functional collaboration (Product, UX, Customer) to reduce delivery cycles by ~15%, improved customer satisfaction by ensuring engineering roadmaps map directly to customer & stakeholder needs.

Established technical vision & architecture standards for cloud-native platforms serving 60K+ operations; fostered culture of transparency, trust, accountability via regular 1:1s, clear goal-setting, mentoring senior engineers into tech leads.

AI / ML Experience

AI Knowledgebase & RAG System (2023-Present): Architected and built a Retrieval Augmented Generation (RAG)-based knowledgebase integrating HuggingFace embeddings, FAISS vector database, LangChain, LlamaIndex, and Google Gemini / OpenAI APIs; created semantic search, QA across varied document formats; built demo UI with Streamlit.

Defined best practices for LLM model usage: prompt engineering, embedding evaluation, data pipeline for embeddings, monitoring & fallback strategies.

Introduced ML model deployment lifecycles (from experimentation / proof-of-concept to integration in production-like environment), including validation, rollout safeguards, performance logging, and error handling.

Grew internal awareness and capability: mentored engineers for AI projects, fostered collaboration between ML engineers, backend teams, and product stakeholders; translated AI technical concepts into business value propositions.

Staying up-to-date with research in transformer architectures, agentic AI, and fine-tuning / few-shot learning to evaluate applicability to our products and customer use-cases.

EDUCATION

Bachelor of Computer Science, TU Vienna
AWS Certified Solution Architect – Associate

LANGUAGES

English
Fluent

German
Fluent

WORK EXPERIENCE

Senior Engineering Manager - AI/ML
KPIT | Berlin, Germany   **Jan 2021 – Present**

Lead multifunctional squads of backend, frontend, and ML engineers in building AI/LLM & cloud-native solutions; coached and mentored senior engineers into tech lead roles.

Defined and executed AI roadmap: initiated RAG-based knowledgebase project; oversaw prototyping, embedding pipelines, model/parameter evaluation; collaborated with customers to integrate AI features into their tech stacks.

Established engineering excellence practices: deployed OKR framework to shift focus from feature output to measurable business value (customer impact, usage metrics); implemented DORA metrics to monitor and improve key delivery/leak and recovery processes.

Oversaw technical architecture standards including ML infra, model deployment, observability, fallback, scaling; ensured secure, ethical AI model usage (bias, privacy, inference cost).

Managed project timelines, resources, and budgets for AI and SaaS platform enhancements; worked with Product, UX, Sales to prioritize AI initiatives.

Senior Software Engineering Manager
Smart House Media GmbH | Berlin, Germany   **Nov 2014 – Dec 2020**

- Led engineering team for B2B SaaS content management platform serving enterprise clients
- Drove technical vision and architecture decisions for multi-tenant platform transformation
- Partnered with Product and Sales teams on feature prioritization and roadmap planning

Software Engineering Manager
Unisys | Vienna, Austria   **Oct 2011 – Oct 2014**

- Led ERP digital transformation for a government client, cutting processing time by 70 % and reducing approval delays by 40 %

Software Engineering Manager
Greentube I.E.S. AG | Vienna, Austria   **Aug 2008 – Sep 2011**

- Integrated mySQL based ad management features into 3D gaming platform, boosting in-game monetisation revenue by 45–60 %

Senior Software Engineer
bwin | Vienna, Austria   **Feb 2001 – Jun 2005**

- Built internal CX and CRM tools, improving customer feedback loops by 80 % and reducing ticket resolution time by 65 %

Software Engineer
Eurest | Vienna, Austria   **Jun 1996 – Jan 2001**

- Built automated monthly accounting integration for 65+ kitchen units, enabling scale from 30 sites and boosting revenue by 200 %