

# Gerry Walter

Senior Applied AI Engineer | Production AI Systems | Enterprise Software

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## PROFESSIONAL SUMMARY

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Senior Applied AI Engineer combining more than ten years of software engineering with over three years designing and implementing applied-AI systems. I build end-to-end capabilities spanning Hybrid Search and RAG, stateful agent orchestration, LLM evaluation and observability, multimodal workflows, enterprise integration and native local inference across Python, Java, TypeScript and C++. During a contract-based engagement with Qendryx AI Solutions, I led the architecture and hands-on delivery of Lizard-LLM and Sonic Mind Connect. My strongest value is bridging frontier AI capabilities with the engineering discipline required to make them usable, measurable and dependable in production.

## TECHNICAL SKILLS

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Applied AI: Production LLM applications, Hybrid Search, RAG, agentic AI, multi-agent systems, prompt engineering, structured outputs, human-in-the-loop and multimodal workflows.

Retrieval & Knowledge: Embeddings, semantic and keyword search, metadata filtering, vector retrieval, reranking, retrieval evaluation, LangChain, LlamaIndex and Obsidian.

Agents & Integration: Custom TypeScript workflow orchestration, LangGraph scheduler runtime, conditional graph routing, database-backed checkpoints, resumable execution, parallel executor dispatch, MCP, structured tool results, partial-failure isolation and human approval.

Evaluation & Safety: LLM evaluation, AI/LLM observability, hallucination mitigation, groundedness, answer relevance, regression datasets, prompt regression and tool-call validation.

Inference Engineering: Native C++ local inference, GGUF runtimes, quantization, KV-cache optimization, hardware-aware execution, CPU/GPU routing and OpenAI-compatible serving.

Languages & Backend: Python, Java 8-21, TypeScript, C++, Node.js, NestJS, Spring Boot, Spring Security, Java EE, JPA/Hibernate and REST APIs.

Frontend & Data: React, Angular, Vue, PostgreSQL, Oracle, MySQL, MongoDB, Supabase and LiveKit.

Cloud & Delivery: GCP, Vertex AI model training and managed ML workflows, Azure, Railway, Docker, CI/CD, Maven, Flyway, automated QA, API/integration tests and regression runs.

## SELECTED IMPACT

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- **Applied-AI product delivery:** Led the architecture and hands-on implementation of Lizard-LLM and Sonic Mind Connect, taking both products from requirements and system design through quality assurance and production readiness.
- **Enterprise AI workflows:** Converted multi-provider research, reporting and knowledge processes into controlled, resumable workflows combining local inference, cloud models, RAG, LangGraph and human oversight.
- **Transport optimization:** Designed a four-milestone Hybrid Search and RAG workflow connecting shipment context with more than 20,000 service locations, contributing to an internally measured improvement of more than 8% in transport time and operating cost.
- **Platform reliability at scale:** Contributed to DBot's engineering engagement for Alpega, a Gartner-recognized European transport-management platform; DBot publicly reports 42% higher performance, 99.95% uptime and 30% lower infrastructure costs at engagement level.
- **Enterprise recruitment systems:** Strengthened Hays Germany's Matchbox Neo platform through Java/Spring Boot services, Angular functionality, system-design improvements and dependable integration with established recruiting workflows.

## PROFESSIONAL EXPERIENCE

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### Senior Applied AI Engineer

Qendryx AI Solutions | Thailand / Remote | Contract-based | Oct 2025 - Aug 2026

- Designed and implemented production-oriented AI applications, translating product requirements into maintainable system architectures and reliable user workflows.
- Led the end-to-end development of Sonic Mind Connect, covering multi-agent workflow design, enterprise integrations, knowledge retrieval and controlled AI-assisted execution.
- Developed Lizard-LLM as a local inference solution for running GGUF language models on Windows across different CPU and GPU environments.
- Established shared engineering standards for system modularity, error handling, observability, evaluation and human oversight across AI-enabled workflows.
- Combined Python, TypeScript and C++ development with LangGraph, RAG, MCP and cloud-model integrations to deliver practical AI capabilities from initial design through production readiness.

### Senior Full Stack / AI Engineer

DBot Software - Alpega Transport Platform | Remote | Apr 2023 - Oct 2025

- Worked within DBot Software's embedded engineering engagement for Alpega, a Gartner-recognized European transportation-management software provider.
- Contributed to the architecture, development and stabilization of business-critical transport capabilities using Java, Spring Boot, REST services and enterprise integration patterns.
- Delivered discovery, guidance and booking workflows covering more than 20,000 cleaning-station locations worldwide for drivers, consultants and transport teams within EFTCO, EFTCI and ENFIT-related processes.
- Designed a four-milestone Hybrid Search and RAG workflow combining carrier position, shipment state, operational history and station capabilities.
- Converted the milestones into real-time shipment visibility and ranked recommendations for loading, unloading, reloading or cleaning based on location, time, availability and process fit.
- Achieved an internally measured improvement of more than 8% in transport time and operating cost within the supported workflow.
- Strengthened software quality through automated QA, API and integration testing, regression runs, CI/CD, technical documentation and controlled releases.
- Contributed to the engagement for which DBot publicly reports 42% higher performance, 99.95% uptime and 30% lower infrastructure costs; these are engagement-level outcomes.

### Senior Full Stack Developer

Hays AG Germany - Matchbox Neo Internal Recruitment Platform | Thailand / Remote | Mar 2022 - Apr 2023

- Developed and enhanced Matchbox Neo, Hays Germany's internal enterprise recruitment platform supporting candidate, client, vacancy, application and placement workflows.
- Delivered full-stack functionality across Angular frontends and Java/Spring Boot backend services, with a strong focus on system design, maintainable architecture and reliable enterprise integration.
- Designed application components, service boundaries and API interactions that translated operational recruiting requirements into reusable platform capabilities.
- Built Spring Boot services and REST integrations connecting user-facing workflows with established recruitment and business systems.
- Improved delivery quality through unit, integration and end-to-end testing, regression runs, documentation and repeatable CI/CD processes.
- Investigated complex defects across frontend, backend and integration layers while collaborating with German product, recruitment, business and engineering stakeholders.

## PROFESSIONAL EXPERIENCE - CONTINUED

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### Full Stack Engineer

Deutsche Telekom AG | Germany | May 2017 - Oct 2019

- Developed and maintained business-critical full-stack applications within a large-scale telecommunications environment using Java EE, Spring and web technologies.
- Implemented backend services, user-facing functionality and secure integrations supporting established enterprise processes and interconnected business systems.
- Contributed to application modernization by improving component structure, maintainability and the reliability of existing workflows.
- Supported defect analysis, testing and production stabilization in collaboration with development, operations and business stakeholders.

## EARLIER ENTERPRISE EXPERIENCE

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### Java Developer

KWW Water Group | Germany | Nov 2015 - Mar 2017

- Built and maintained Java EE and Spring MVC modules for ERP and CRM processes, improving workflow consistency, business-data quality and dependable internal operations.

### Frontend Developer - Contract

ENP Group | Germany | Feb 2012 - Sep 2017

- Delivered contract-based CRM and CMS modernization using HTML5, CSS3 and JavaScript, improving browser compatibility, usability and maintainability. The contract overlapped with later full-time experience.

## EDUCATION & PROFESSIONAL DEVELOPMENT

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Computer Science Expert in Software Development | GFN Mannheim | 2022

German state-recognized professional qualification | DQR/EQF Level 4

Formally assessed application-development program covering software architecture, object-oriented programming, databases, testing and QA, deployment, documentation, security and maintainable business systems. The 2019-2022 period covered career transition, structured training and successful completion of the qualification.

Mechatronics Technician - Systems Engineering & Robotics | IB Mannheim | 1998

German vocational qualification | DQR/EQF Level 4

Completed vocational training in mechatronics with a focus on systems engineering and robotics, covering electrical and mechanical systems, automation and control technology, commissioning, preventive maintenance, technical documentation and structured fault diagnosis.

## LANGUAGES & AVAILABILITY

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Languages: German - Native | English - Fluent | Thai - Intermediate

Location & schedule: Surat Thani, Thailand | Remote roles with European-hours overlap

EU work authorization: German/EU citizen with unrestricted EU work authorization; no EU Blue Card required

Thailand residence: Legally resident in Thailand as the spouse of a Thai citizen

Thailand work authorization: Requires employer sponsorship; eligible through a qualifying Thai employing entity, including a BOI-promoted employer