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Marius Anderie

Summary

I help engineering teams make legacy enterprise systems AI-ready. I design and ship production RAG systems, MCP tooling, and AI agent architecture — typically as sole contributor. Deep roots in Clean Architecture, Azure Cloud, and Windows kernel security.

Core Skills

- **AI & LLM Engineering:** Azure OpenAI, RAG, MCP (Model Context Protocol), LangChain, Multi-Agent Systems, RAGAS, Context Engineering
 - **Backend & Architecture:** Python (FastAPI), C# (.NET 8, ASP.NET Core, EF Core), Clean Architecture, Vertical-Slice CQRS, DDD, Microservices
 - **Cloud & Infrastructure:** Azure (AI Search, Web Apps, DevOps, Cosmos DB), Docker, Terraform, CI/CD (Azure Pipelines, GitHub Actions)
 - **Systems & Security:** Windows Kernel Development, C/C++, Minifilter Drivers, Roslyn / ts-morph Code Analysis
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Professional Experience

Senior Software Architect · Nexlore AG

Bern, Switzerland · Jun 2023 – present

Successfully delivered multiple high-impact projects for key clients, demonstrating leadership in architecture, AI/ML engineering, and full-stack development.

- **Project: AI-Powered Multi-Agent Support Assistant — Defense Client (Switzerland)**
 - Roles: *Software Architect, AI/ML Engineer, Lead Software Engineer (Jan 2024 - Present)*
 - Led the design and delivery of a microservice-based RAG chat assistant using Python, FastAPI, Azure OpenAI (GPT-4o), Azure AI Search, and React.
 - Architected the end-to-end system, built chat, ingestion, and LLM-based evaluation (RAGAS) frameworks.

- **Impact:** Reduced L1 support tickets by **40%**, improved correct answer rate from **40% to 80%** for 12,000 users, and maintained zero P1 incidents with bi-weekly rollouts.
- **Project: Code Intelligence & MCP Server — Defense Client (Switzerland)**
 - *Roles: AI/ML Engineer, AI Tooling Developer, Software Architect (Jan 2026 - Feb 2026)*
 - Built static-analysis tools (TypeScript/ts-morph for Angular frontend, C#/Roslyn for .NET backend) and a Python MCP server exposing 6 tools for AI coding agents — sole contributor on a 500k+ LOC legacy codebase.
 - **Impact:** AI agents completed benchmark tasks **4.7x faster**; enriched all **715** chatbot actions with extracted business logic in **1.5 hours**; demonstrated a replicable approach for making legacy codebases AI-ready.
- **Project: Automated UI-Action Generation Pipeline — Defense Client (Switzerland)**
 - *Roles: AI/ML Engineer, AI Tooling Developer (Jan 2026 - Feb 2026)*
 - Conceived and solely built a UI-tree capture pipeline (JavaScript bookmarklet, Node.js, Python/FastAPI, Azure OpenAI) that extracts structured action data from a web portal for RAG ingestion.
 - **Impact:** Generated **715** structured actions in **one month** — up from **3** produced by months of manual effort; trilingual localization (DE/FR/IT); received a salary raise in recognition.
- **Project: Monolith-to-Modern Strangler Migration — Defense Client Web Suite**
 - *Roles: Tech Lead, Software Architect, Lead Software Engineer (Jun 2023 - Jan 2024)*
 - Stabilized an 8-year-old .NET/Angular monolith by architecting and initiating a Strangler-Fig migration using YARP, Docker, Nginx, and Vertical-Slice CQRS (.NET 6).
 - Authored a 10-page strategy paper and roadmap, implemented containerization, gateway PoC, and rewrote CI pipeline in Nuke.
 - **Impact:** Secured **CHF >3M** funding for the modernization roadmap, reduced regression defects by **70%**, and cut test pipeline runtime by **33%**.
- **Project: Employee-Data Word Plugin Integration — Coop Group (Switzerland)**
 - *Roles: Solution Architect, Full-Stack Developer, DevOps (4-week build in 2023, ongoing enhancements)*
 - Designed, built, and deployed solo a secure, full-stack data bridge (C#, ASP.NET Web API, Angular, MongoDB, Azure Web Apps, Terraform) for Officeatwork, integrating with Coop's directory services.
 - **Impact:** Shipped MVP in **4 weeks**, enabling dynamic templates for **8,000+** employees. Maintained **>90%** TDD coverage and secured ongoing enhancement requests.

Full-Stack C# / .NET Software Engineer · Techgroup Schweiz AG - Maison du Software

Zürich, Switzerland · Feb 2022 – Jun 2023

- **Project: Track & Trace Platform "TNT" — Planzer (Logistics, Switzerland)**
 - *Roles: Software Engineer, Backend Lead (Feb 2022 – Jun 2023)*
 - Engineered a high-throughput microservice (.NET 6, ASP.NET Core, MediatR, EF Core, Onion Architecture) for real-time shipment tracking.
 - Implemented core business logic, idempotent APIs, integration tests, and designed the email notification module.
 - **Impact:** Handled **100,000+ API calls** on launch day with **0 P1 incidents** and 100% availability during migration.

C# .NET Software Engineer (Contract)

Remote · Sep 2021 – Jan 2022

- Developed **blockchain** components in .NET.
- Shipped a **MAUI** mobile application and a **Blazor** web portal for the same product suite.

C/C++ Software / Kernel Engineer · Conpal GmbH

Frankfurt am Main, Germany · Jul 2019 – Aug 2021

- **Project: Enterprise File-Encryption Minifilter Driver — LANCrypt (Windows)**
 - *Roles: C/C++ System Programmer, Windows Kernel Developer*

- Maintained, hardened, and re-architected a production-grade Windows kernel minifilter driver (C++17, Windows Filter Manager) for transparent file encryption.
 - Implemented self-protection mechanisms (ObRegisterCallbacks) and analysed >50 customer crash dumps to assembly level.
 - **Impact:** Deployed on >100,000 endpoints; 0 successful runtime-tampering incidents post-hardening; cut crash-dump resolution time by 60%.
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Selected Personal & Academic Projects

- **Distributed Autonomous Agent System — 8-Repo Architecture** (Personal R&D, 2019 – 2025)
 - *Roles: Software Architect, Systems Developer, DevOps*
 - Designed and built an 8-repository distributed system (C# .NET 8, Python/FastAPI, Lua, ZeroMQ, Redis, GPT-4o, Recast/Detour) orchestrating 18 simultaneous autonomous agents across GPU-VPS and local infrastructure. Architecture includes a game-independent behavior tree framework with reflection-based command discovery, real-time IPC via ZeroMQ, and LLM-powered natural-language processing pipeline.
 - **Impact:** Fully autonomous end-to-end pipeline; 18 concurrent agents across distributed infrastructure; 337 waypoint routes; 120+ behavior tree node types.
 - **Community-Driven Forum Platform** (Personal Project, 2021 – Present)
 - *Roles: Founder, Full-Stack Engineer, DevOps*
 - Bootstrapped and evolved a microservice forum platform (Python FastAPI, .NET 8 Blazor, MySQL, Angular, Nginx, Grafana) using a Strangler-Fig HTML proxy approach.
 - **Impact:** Scaled to 100,000+ daily page views with 99.9% uptime; revenue-positive; increased active posters by +25%.
 - **MemWars — Game-Security Research Framework** (M.Sc. Thesis, Philipps-University Marburg, 2018 – 2019)
 - *Roles: Security Researcher, C++ Developer, Reverse-Engineer*
 - Built a Windows-kernel-aware security testing framework (C++17, Lua, WinAPI) to evaluate anti-cheat protection systems. (github.com/moccajoghurt/MemWars)
 - **Impact:** Evaluated 4 commercial protection suites across 9 titles, identifying kernel-mode security gaps. Open-sourced project gained 48 stars.
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Education

M.Sc. Computer Science – Philipps-University Marburg *Marburg, Germany* · Oct 2016 – Jan 2019 - Focus: Software Design, Refactoring, OO Design Patterns - Thesis: "MemWars – Game-Security Pen-Testing Framework"

B.Sc. Computer Science – Frankfurt University of Applied Sciences *Frankfurt am Main, Germany* · Apr 2012 – Apr 2016 - Focus: Software Engineering, Machine Learning - Early research: Robot localization (Honda Research Institute), pattern recognition lab (university)

Languages

- **German:** Native
- **English:** Fluent (Spoken & Written)