



PLAYER PROFILE

 CLASS	Senior Software Architect (Lead / Senior)
ORIGIN	Germany 🇩🇪 / Poland 🇵🇱 (Base: Germany 🇩🇪 / Spain 🇪🇸)
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AVAILABILITY	Open to Remote (EU / US) Available Immediately

SKILL TREE

 CORE TECH	 AI & DATA	 ARCHITECTURE
Ruby (Rails), Python, FastAPI	Agentic AI Architecture	Microservices
PostgreSQL, Redis, TypeScript	Multi-Agent Orchestration	Event-Driven (Kafka/RabbitMQ)
Node.js, React	Tool Calling & Routing, MCP	Kubernetes, Docker, AWS/GCP
	LangChain, PydanticAI	
	Prompt Engineering	

SPECIAL ABILITIES

- **Polyglot:** 🇩🇪 German (Native), 🇵🇱 Polish (Native), 🇬🇧 English (Fluent), 🇪🇸 Spanish (Fluent).
- **Hyper-Productivity:** Rapid prototyping, TDD, & deployment.
- **Team Buff:** Mentorship, Team Building, & Technical Leadership.

TOOLBELT & INVENTORY

Databases: MongoDB, Neo4j, MySQL, SQLite, Memcached, Elasticsearch.

DevOps & Scripting: Bash/Shell, Ansible, Terraform, GitHub Actions, Prometheus, Grafana.

AI Frameworks: LangChain, LangGraph, PydanticAI, Hugging Face, OpenAI API, Anthropic API, Gemini API.

Architecture: REST, GraphQL, gRPC, JSON-RPC, OAuth 2.0, WebSocket.

Blockchain (secondary): Polygon, Ethereum, Solidity, Hyperledger, Hedera, Chainlink, Stellar.

PROFESSIONAL SUMMARY

Senior Backend Architect turned **Agentic AI Infrastructure specialist** — 19+ years building distributed systems, now designing the tools and protocols that make autonomous AI agents work in production: routing proxies, P2P agent networks, A2A communication layers, and RAG pipelines engineered for scale.

Key Achievements:

SwitchAI – Engineered a multi-model AI proxy, optimizing request routing across leading LLM providers (OpenAI, Anthropic, Google AI Studio, Mistral, Hugging Face) and custom local models, reducing AI operational costs by 30%.

HiveMindAI – Built an autonomous AI agent marketplace for data analysis, content generation, and workflow automation, reducing agent deployment from weeks to days.

AI-Driven Logistics (ChainGO) – Led the shift to AI-first automation in logistics, introducing AI-powered document processing and anomaly detection, reducing manual processing by ~70%.

Proficient in Kubernetes, AWS/GCP, FastAPI, LangChain, PydanticAI, RAG workflows, Python-based AI frameworks, and Ruby on Rails API development to deliver robust, cost-effective, and scalable platforms.

OPEN SOURCE PROJECTS

[Scoutica Protocol](#)

Creator & Protocol Designer | An open-source, decentralized protocol that replaces traditional CVs with AI-agent-readable "Skill Cards." Candidates publish structured JSON/YAML/Markdown profiles to their own Git repositories, making their career data globally discoverable by any AI agent without depending on centralized platforms (LinkedIn, Indeed). Features a three-zone privacy model, anti-spam micropayments (~\$0.05) to block mass data scraping, and a full CLI toolchain for card generation and validation.

Tech Stack: JSON Schema, YAML, Markdown, CLI (Node.js), Mintlify Docs | Website: scoutica.com

[switchAllLocal](#)

Creator & Lead Architect | Unified AI gateway that bridges Gemini, Claude, Ollama, and CLI tools into a single OpenAI-compatible server. Features intelligent routing, load balancing, and autonomous self-healing with Superbrain intelligence.

Tech Stack: Go, AI Gateway, OpenAI API, LLM Routing, React UI

[Traylinx CLI](#)

Creator & Lead Developer | Command-line interface for managing AI agents with conversational Cortex interface. Natural language processing, multi-turn conversations, and intelligent command execution.

Tech Stack: Python, CLI, NLP, Agent Management, Typer

[Traylinx Stargate](#)

Creator & Lead Architect | P2P networking plugin for agent-to-agent communication. Features zero-trust identity with Ed25519, multi-transport support (NATS/libp2p), Circuit Relay v2 for NAT traversal, connection pooling, and comprehensive health monitoring. Production-ready mesh network for distributed AI agents.

Tech Stack: Python, P2P, NATS, libp2p, NAT Traversal, Zero-Trust

[A2A Ruby SDK](#)

Creator & Maintainer | Production-grade Ruby SDK for Google's Agent2Agent (A2A) Protocol. Enables seamless agent-to-agent communication via JSON-RPC 2.0, gRPC, and HTTP+JSON transports with full OAuth 2.0 support.

Tech Stack: Ruby, A2A Protocol, gRPC, OAuth 2.0, JSON-RPC

[2md \(Agentic Data Ingestion Engine\)](#)

Creator | Engineered a high-fidelity HTML-to-Markdown conversion pipeline designed specifically for AI agents. Features deep site crawling, batch processing, and advanced WAF/Cloudflare bypass using stealth Puppeteer rotation. Includes a REST API for programmatic agent discovery and automatic "AI Skill Bundle" generation.

Tech Stack: Node.js, Puppeteer, Markdown AST, Express, REST API

[google-drive-intelligent-mcp](#)

Creator | Intelligent MCP (Model Context Protocol) server for Google Drive operations. Enables AI agents to autonomously discover, read, and manage Drive files via the standardised MCP interface.

Tech Stack: Node.js, MCP Protocol, Google Drive API, OAuth 2.0

[Traylinx Authentication Clients](#)

Creator & Maintainer | Enterprise-grade authentication clients for Traylinx Sentinel API with full A2A Protocol support. Available for [Python](#) and [Node.js](#) with OAuth 2.0, JWT, and secure token management.

Tech Stack: Python, JavaScript, OAuth 2.0, JWT, Security

Additional Projects: [homebrew-traylinx](#), [scoop-traylinx](#), [a2a-ruby-samples](#)

GitHub Organizations: [@traylinx](#) | [@rschumann](#)

CORE COMPETENCIES

AI & Agentic Development

LLM Integration: OpenAI, Anthropic, Google AI Studio, Mistral, DeepSeek, Alibaba Cloud, NVIDIA NIM, Hugging Face, open source and custom models including local models environments.

RAG Pipelines: Retrieval-augmented generation for high-accuracy AI responses

AI Orchestration: Agent-based automation with PydanticAI, LangChain, Hugging Face, and custom multi-agent systems.

Vector Databases: Pinecone, ChromaDB, and pgvector for semantic search and AI memory.

Microservices & DevOps

Cloud & Containerization: Kubernetes, Docker, Terraform, AWS, GCP, Azure.

Event-Driven Systems: Kafka, RabbitMQ, AWS SQS/SNS, Pub/Sub, Sidekiq, Shoryuken.

CI/CD & Infrastructure as Code: Automated deployments with GitHub Actions, comprehensive observability (Prometheus, Grafana).

Backend Engineering & Data

API Development: FastAPI, Ruby on Rails, RESTful, GraphQL, gRPC & JSON-RPC APIs.

Real-Time Data Processing: Redis, Memcached, streaming analytics.

Database Expertise: PostgreSQL (with pgvector), MongoDB, Neo4j – optimized for AI and event-driven workloads.

Leadership & Consulting

Engineering Team Scaling: Agile methodologies, sprint planning, remote collaboration.

AI Strategy & Consulting: AI-driven automation, business intelligence integration.

MLOps & Model Lifecycle Management: Continuous retraining, performance optimization.

PROFESSIONAL EXPERIENCE

Freelance Highlights: TRAYLINX (2024 – Present)

Role: Freelance Developer | Product Architect

Key Projects & Achievements:

◆ SwitchAI (Multi-Model AI Proxy)

- **Architected and engineered** an AI request-routing proxy, dynamically selecting models based on cost, latency, and performance.
- **Unified API integrations** across leading LLM providers (OpenAI, Anthropic, Google AI Studio, Mistral, Hugging Face) and custom local models, optimizing cost-efficiency by 30%.

◆ Scoutica Protocol: Decentralized Career Data Protocol

- **Designed and built an open-source protocol** that replaces traditional CVs with AI-agent-readable Skill Cards, enabling candidates to own and control their career data.

- **Engineered the multi-agent recruitment platform** underneath, orchestrating specialized AI agents using a resilient, event-driven architecture built on AWS SNS/SQS.
- **Tech Stack:** Python (FastAPI), Ruby on Rails, PostgreSQL (pgvector), JSON Schema, AWS, Docker, Kubernetes. | Website: scoutica.com

◆ HiveMindAI (AI Agent Marketplace)

- **Built a marketplace** for autonomous AI agents specializing in data analysis, content generation, and multi-step workflow automation.
- **Designed RAG-based systems** to reduce hallucinations and increase accuracy in complex retrieval tasks.
- **Developed Traylinx CLI** for seamless agent lifecycle management and distribution. | URL: github.com/traylinx/traylinx-cli

◆ 2md: AI-Ready Markdown Engine

- **Engineered an advanced data ingestion tool** designed to feed RAG pipelines and AI agents.
- **Integrated headless Chrome, OCR, and Vision AI** to perfectly convert URLs, PDFs, and unstructured documents into clean, agent-readable Markdown and specialized "AI Skill Bundles." | Website: 2md.traylinx.com

◆ A2A Ruby GEM

- **Developed a production-grade Ruby Gem** for Google's Agent-to-Agent (A2A) protocol, supporting JSON-RPC 2.0, gRPC, and OAuth 2.0/JWT/mTLS security layers. | URL: github.com/traylinx/a2a-ruby

◆ Advanced OAuth 2.0 Authentication Service

- **Designed a high-security authentication microservice** supporting social logins, 2FA/OTP, and specialized A2A flows with AES-256-GCM encryption. | Clients: [Python](#) | [Node.js](#)

Overall Tech Stack: Python, Ruby, RoR, React, Docker, Kubernetes, AWS, GCP, PydanticAI, LangChain, Hugging Face, Redis, Kafka, traylinx.com

Monodon (Navantia), Madrid — Deeptech AI Specialist (Jul 2023 – Apr 2025)

- Architected and implemented advanced RAG (Retrieval-Augmented Generation) systems for Navantia's deeptech innovation unit, enhancing data retrieval accuracy for strategic R&D projects.
- Led model fine-tuning initiatives for specialized AI applications, optimizing performance for complex, high-stakes industrial use cases.
- Collaborated with cross-functional teams to integrate AI solutions into Navantia's core technology stack, driving innovation in maritime and defense sectors.

Tech Stack: Python, PyTorch, Hugging Face, LangChain, RAG, Vector Databases, Kubernetes

Babel Group, Madrid — AI Engineer (Jun 2024 – Dec 2024) (*Parallel Freelance Contract*)

- Developed RAG-based AI solutions, integrating with enterprise data infrastructure for high-accuracy responses.
- Optimized LLM performance, reducing latency and cost with fine-tuned AI models.
- Built NLP pipelines for summarization, entity extraction, and sentiment analysis, enhancing automation workflows.

Tech Stack: Python, Hugging Face, LangChain, TensorFlow, Docker, Kubernetes, PostgreSQL

ChainGO, Madrid — Head of Development (Feb 2019 – Jul 2024)

- **Pioneered AI-driven automation** in logistics and shipping, reducing operational inefficiencies.
- **Built microservices-based document processing** ([docBlox](#)), integrating AI & blockchain.
- **Developed the eBL Platform**, digitizing the Bill of Lading process using Polygon blockchain.
- **Implemented ForestChain Digital Passport**, a blockchain system for forest product traceability.

Tech Stack: Python, Node.js, Ruby, AWS, PostgreSQL, Docker, Blockchain (Polygon), AI-driven logistics optimization.

Agentero, San Francisco — Head of Development (May 2017 – Dec 2018)

- **Grew development team** from 1 to 15 engineers, establishing Kubernetes-based infrastructure and CI/CD pipelines.
- **Built real-time event-driven analytics** for insurance risk analysis, delivering a scalable backend ([agentero](#)).

Tech Stack: Ruby, Python, Golang, Node.js, Kafka, AWS, GCP, Kubernetes.

Vizzuality, Madrid — Backend Engineer (May 2014 – May 2017)

- **Developed environmental data APIs** for large-scale data visualization.
- **Unified diverse datasets** with a microservices-based architecture, improving data accessibility globally.

Tech Stack: Python, Ruby, Node.js, AWS, PostgreSQL.

KEY PROJECTS

- ✓ Scoutica Protocol (Traylinx) – Open-source decentralized protocol replacing CVs with AI-readable Skill Cards
 - ✓ SwitchAI (Traylinx) – AI routing proxy saving 30% in AI operational costs
 - ✓ HiveMindAI (Traylinx) – Accelerated AI agent deployment from weeks to days
 - ✓ RAG Solutions (Babel Group) – Improved AI-driven Q\&A accuracy & retrieval
 - ✓ AI-Driven Logistics (ChainGO) – Automated shipping documentation processing
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FEATURED PROJECTS

ChainGO eBL Platform

- Revolutionized the Bill of Lading process by digitizing and automating documentation workflows.
- Utilized Polygon blockchain to create NFT-backed eBLs, ensuring immutable ownership and traceability.
- Reduced CO2 emissions and manual labor through digital documentation.
- **Tech Stack:** Python, Blockchain, NFT, Ruby. | Website: ebl.chaingotech.com

ForestChain Digital Passport

- Developed a blockchain-based Digital Passport system for forest product traceability.
- Enabled end-to-end transparency and compliance with sustainability standards via blockchain-backed certifications.
- **Tech Stack:** Python, Blockchain, Ruby. | Websites: forestchain.chaingotech.com, forest-chain.com

API (Microservices Architecture) for World Resources Institute

- Developed backend APIs for data analysis tools as part of a global environmental initiative led by the White House OSTP and WRI.
- Created scalable query services and public APIs, used by researchers and universities worldwide.
- **Tech Stack:** Python, Microservices, API, Node.js. | Website: resourcewatch.org | api.resourcewatch.org

Data Management for Red Eléctrica de España

- Designed and deployed a backend system to process and serve thousands of indicators updating in real-time.
- Managed Oracle Database SQL scripting and Ruby on Rails infrastructure for data visualization. | Website: esios.ree.es

Language Learning Platform (Palabea)

- Founded and led the development of a virtual classroom platform with video conferencing and document sharing capabilities.
- Focused on user-centric design and backend architecture to create an engaging learning experience. | Website: Palabea on Mashable

EDUCATION & EXPERTISE

 **Academic Background:** TU Berlin

 **Technical Focus & Research:** LLM fine-tuning, microservices best practices, and AI architectures

Portfolio Formats

This repository contains my CV in three distinct formats:

1. [Online Interactive Edition](#): The live, high-fidelity webpage with interactive skill trees and 80s aesthetic.
2. [Web Edition \(Local Source\)](#): The source HTML for the interactive CV.
3. [Markdown Edition](#): Clean, structured version optimized for GitHub.
4. [PDF Edition](#): Polished, printer-friendly document.