



🎮 PLAYER PROFILE

🎮 CLASS	Senior Software Architect (Lead / Senior)
ORIGIN	Germany 🇩🇪 / Poland 🇵🇱 (Base: Germany 🇩🇪 / Spain 🇪🇸)
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🛡️ SKILL TREE

🔴 CORE TECH	🔵 AI & DATA	🟢 ARCHITECTURE
Ruby (Rails), Python	RAG Pipelines	Microservices
PostgreSQL, Redis	Fine-tuning (LLaMA/Mistral)	Event-Driven (Kafka/RabbitMQ)
Solidity (Smart Contracts)	Vector DBs (pgvector)	Kubernetes, Docker, AWS/GCP

⚔️ 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.

Blockchain: Polygon, Ethereum, Hyperledger, Hedera, Chainlink, Stellar.

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

PROFESSIONAL SUMMARY

Innovative AI & Microservices Architect with nearly two decades of experience in scalable, high-performance backend systems, event-driven architectures, and AI-driven applications. Expertise in agentic AI, large language model (LLM) integration, DevOps automation, and cloud-native microservices.

Key Achievements:

SwitchAI – Engineered a multi-model AI proxy, optimizing request routing across Leading LLM providers and platforms such as OpenAI, Anthropic, Google AI Studio, Mistral, and Hugging Face, along with open-source and custom models reducing costs by 30%.

HiveMindAI – Built an autonomous AI agent marketplace for data analysis, content generation, and workflow automation, accelerating AI adoption.

AI-Driven Logistics (ChainGO) – Led the shift to AI-first automation in logistics, introducing AI-powered document processing and anomaly detection, enhancing efficiency.

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

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: AI-Powered Recruitment Platform

- **Led the architecture and development** of a multi-agent AI recruitment platform designed to automate the talent acquisition lifecycle.
- **Orchestrated specialized AI agents** using a resilient, event-driven architecture built on AWS SNS/SQS.
- **Tech Stack:** Python (FastAPI), Ruby on Rails, PostgreSQL (pgvector), 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

◆ 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)

- 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

- ✓ 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

Recent Projects

◆ A2A Ruby GEM

- **Architected and developed a production-grade Ruby Gem** for Google's Agent-to-Agent (A2A) protocol, enabling secure, high-performance machine-to-machine communication.
- **Implemented comprehensive A2A protocol support**, including JSON-RPC 2.0, gRPC, and HTTP+JSON transports, ensuring broad interoperability.
- **Engineered a robust security layer** with OAuth 2.0, JWT, API Key, and mTLS authentication mechanisms.
- **Built for production environments** with seamless Rails integration, structured logging, performance metrics, and advanced error handling.
- **Delivered a feature-rich SDK** including streaming, event management, task processing, and agent capability discovery.
- **Tech Stack:** Ruby, Rails, gRPC, JSON-RPC, OAuth 2.0, JWT, mTLS, RSpec, Guard, Yard. | URLs: github.com/traylinx/a2a-ruby, github.com/traylinx/a2a-ruby-samples

◆ Scoutica: AI-Powered Recruitment Platform

- **Led the architecture and development of a multi-agent AI recruitment platform**, designed to automate the entire talent acquisition lifecycle.
- **Orchestrated a system of specialized AI agents** (for sourcing, screening, assessment, etc.) using a resilient, event-driven architecture built on AWS SNS/SQS.
- **Developed the core API and data models** using Ruby on Rails and PostgreSQL with pgvector for candidate embedding and semantic search.
- **Engineered the central AI workflow orchestrator** in Python (FastAPI) to manage complex, concurrent recruitment workflows with high reliability and sub-second latency.
- **Implemented production-grade resilience patterns**, including circuit breakers, dead-letter queues, and automated recovery mechanisms. | Website: scoutica.com
- **Tech Stack:** Python, FastAPI, Ruby on Rails, PostgreSQL (pgvector), AWS SQS/SNS, Docker, Kubernetes, RSpec, Pytest.

◆ Advanced OAuth 2.0 Authentication Service

- **Designed and built a high-security, scalable OAuth 2.0 and authentication microservice** in Ruby on Rails to secure the entire Traylinx platform.
- **Implemented a multi-faceted authentication strategy**, supporting standard user credentials, social logins (Google, GitHub), and a specialized, secure Agent-to-Agent (A2A) flow.
- **Integrated advanced security features**, including Two-Factor Authentication (2FA/OTP), cryptographic token validation (AES-256-GCM), replay attack protection, and granular token-type segregation.

- **Ensured enterprise-grade reliability** with features like rate limiting, comprehensive audit logging, and a massive 6,000+ line Postman test suite for exhaustive API validation. | Clients: [Python SDK](#) \ | [Node.js SDK](#)
- **Tech Stack:** Ruby on Rails, PostgreSQL, Doorkeeper (OAuth 2.0), JWT, activemodelotp (2FA), AES-256-GCM, RSpec, Postman.

◆ Traylinx: AI Management & Operations Platform (Frontend)

- **Led the frontend development of a complex, feature-rich AI operations and management platform** using React and Material UI.
- **Built a comprehensive user dashboard** providing real-time monitoring of AI model usage, cost analysis, and performance metrics across multiple projects and teams.
- **Engineered a multi-tenant architecture** with robust Role-Based Access Control (RBAC), project and organization management, and a multi-entity wallet system.
- **Integrated a sophisticated multi-model chat interface** and integrated multiple payment gateways including Stripe and Coinbase.
- **Delivered a global-ready application** with internationalization support for over 20 languages.
- **Tech Stack:** React 18, Material UI 6, Context API, LangChain, Stripe, Coinbase API, i18next, Styled Components, Axios.

EDUCATION & EXPERTISE

🎓 **Academic Background:** TU Berlin

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

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

Agentero Platform

- Developed insurance-focused data analytics tools and scalable backend systems.

- Delivered Kubernetes-powered infrastructure for microservices deployment.
- **Tech Stack:** Python, Ruby, K8s, Microservices. | Website: agentero.com

ChainGO Tech

- Pioneered the development of SaaS and blockchain-based tools for logistics management.
- Expanded services across LATAM and USA, ensuring scalability and compliance with industry standards. | Website: chaingotech.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



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.

Language Learning Platform

- 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](#)