HAGEN HÜBEL

Full-Stack Engineer, Technical Consultant, Interims-CTO

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PROFESSIONAL SUMMARY

Strategic Technology Leader & Full-Stack Architect with over 30 years of experience driving innovation across **AI, Big Data, FinTech** and **Blockchain**. Currently leading the architectural evolution of **NestFainder.ai**, where I leverage **Agentic Engineering** (Claude Code, **autonomous workflows**) to build high-velocity, location-intelligence systems. My expertise lies in bridging complex technical execution, such as TOPSIS-based scoring and geospatial semantic search, with high-level business strategy.

Experienced CTO and multi-time Founder, with a decade of building resilient engineering teams and scalable microservice architectures. Track record includes a successful fintech exit and pioneering work in regulated markets, such as developing Germany's first Smart Contract for Security Tokens under the eWpG (presented to BaFin in 2021). Committed to open-source since 2006, applying a "Security-First" mindset to disruptive technologies.

LinkedIn | GitHub | Public Profile | Blog

SKILLS

Category	Skills
Languages & Frameworks	Go, Python, TypeScript, NodeJS, PHP, Flutter/Dart, NextJS, NestJS, FastAPI, React, Solidity
Data & AI	Neural Language Processing, Machine Learning, Big Data, Vector Databases (pgvector, Quadrant), Postgres/PostGIS/TimeScale, Embeddings, Sentence Transformers, vLLM, Cuda, LLama3.1, Llama.cpp
Web3 & Blockchain	Smart Contracts (ERC-20, ERC-721, ERC-1155, ERC-1410), Web3/Blockchain Development, Ethereum, Avalanche, Polygon
Infrastructure & DevOps	Kubernetes, DevOps, AWS (KMS, EC2, S3), Microservices Architecture, Technical Due Diligence, Infrastructure
Leadership & Strategy	Agentic Engineering, Compliance Regulated Environments, Software Architecture, Team Building, Company Building, Scalability, Software Engineering

WORK EXPERIENCE

Full-Stack Engineer & Lead Architect | nestfainder.ai, Berlin | 2026 – Present

Architected and scaled a comprehensive location intelligence platform providing AI-driven district-level analysis for 22,000+ global cities. Spearheaded development using agentic engineering workflows (Claude Code, GitHub Copilot) to maintain high velocity across a complex polyglot stack.

Tech Stack: Go, Python/FastAPI, React/Next.js, PostgreSQL/PostGIS/pgvector, Supabase RLS, Claude Code, GitHub Copilot, Flutter, Quadrant, TimeScaleDB, NLP, Embeddings

Core Contributions & Technical Achievements

- **Three-Layer AI Architecture:** Designed a sophisticated decision-engine utilizing the TOPSIS algorithm to provide multi-criteria scoring across 12 lifestyle categories.
- **Agentic Development Workflow:** Integrated agentic tools like Claude Code to automate boilerplate generation, reducing time-to-production for new feature sets by an estimated 40%.
- **Geospatial & Semantic Search:** Implemented a high-performance search layer using PostgreSQL/PostGIS for spatial queries and pgvector for RLS-secured semantic search.
- **Robust Backend Infrastructure:** Developed a dual-language backend (Go for high-concurrency services and Python/FastAPI for data-intensive AI processing), integrating 21+ external data sources.
- **Scalable Frontend & Security:** Built a responsive UI using React/Next.js, ensuring secure multi-tenant data access via Supabase Row Level Security (RLS).

Lead Architect, CTO & Co-Founder | infobud GmbH, Heidelberg/Berlin | 2024 – 2025

infobud.news is an AI-driven, fully automated news agent and news aggregator that simplifies global news by offering customizable feeds in all languages - delivering tailored insights into tech, finance, politics, and more. Four times a day, our AI agents write news articles based on the topics most relevant to you.

Tech Stack: Go, Python/FastAPI, VueJS, PostgreSQL/pgvector, Claude Code, Cursor, Codex, Quadrant, TimeScaleDB, NLP, Embeddings

- Led the architecture and development of the entire software stack for an AI-driven, fully automated news agent and aggregator.
- Established a robust, scalable architecture and mentored the engineering team, guiding complex data processing and big-data scenarios.

CTO & Co-Founder | tokenforge GmbH, Berlin | 2021 – 2023

Tech Stack: Go, Solidity, Ethereum, Avalanche, Polygon, ERC-721/1155/1410, Microservices.

- Grew the Engineering Team from inception to 15 dedicated professionals.
- Set up a robust microservice software architecture for a tokenization solution and educated the team on complex Web3/blockchain topics.

CTO & Co-Founder | FinTech in Switzerland (Exited in 2021) | 2020 – 2021

Tech Stack: Go, REST-API, PostgreSQL, e-Money Gateway, Kubernetes, KYC

- Foundational leader of the engineering team (grew to five engineers) for an e-Money-based core banking system startup.
- Instrumental to the successful exit of the company within one year, driven by a reward-based payment system for eCommerce.

Engineering & CTO | Yair GmbH, Berlin | 2018 – 2019

- Led the formation of the engineering team and facilitated the release of a blockchain-secured, gamified platform for new media art (Android/iOS).

CTO & Co-Founder | Zizzle eLearning Inc., Salt Lake City (USA) | 2016 – 2018

- Led the swift development of the application's backend and frontend (iOS and Android apps) within a tight two-month period as part of the BOOM startup cohort.

Team Lead Engineering | Yatego GmbH, Munich | 2014 – 2015

- In charge of the engineering team and development of the YategoLocal App development and backend.

Founder, Engineering, Interims-CTO | ITinance GmbH, Düsseldorf, München, Berlin | 2011 – 2018

- Provided strategic consulting and software refactoring services.
- Delivered innovative solutions for smart contract interaction and crypto-payment integration in eCommerce software, including building mobile applications.

KEYPROJECTS & TECHNICAL ACHIEVEMENTS

AI & Data Projects

- **Fully Automated News Agent (infobud GmbH):** Architected and led the development of an AI-driven, fully automated news generation service. This system used large-scale, real-time data scraping, advanced clustering techniques, and NLP to automatically write and publish tailored news articles globally, multiple times per day.

Regulatory & Compliance (eWpG / Security Tokens)

- **Co-Author and Technical Architect of ERC-7570 and ERC-7551:** Designed Smart Contract Interfaces to comply with the German Electronic Securities Act (eWpG).
- Developed eWpG-compliant Smart Contracts and d'Apps for the management and issuance of Security Tokens on Avalanche and Polygon.
- MiFiD II compliant underwriting process.
- **More information:** BaFin - official record[1], Press Release[2], Contract Address[3].

FinTech & Infrastructure

- **Wallets As A Service / Custody Services:** Developed a scalable and secure API infrastructure for custodial on-chain wallets, employing advanced cryptographic methods.
- **eMoney Payment Gateway API:** Developed the banking engine and REST-API in Go for a WhiteLabel Banking System, handling complete payment processing, KYC/UBO, and various transaction types.
- **Tokenization Platform for Real-World Assets (RWA):** Led the development of an all-in-one toolkit for MiFiD II compliant underwriting, automated token- and wallet generation, and secure issuance of digital securities.

Technical Due Diligence & Consulting

- Served as a technical expert for multiple due diligence projects in FinTech, AI, and Blockchain/Crypto companies, covering Code Reviews, Architecture Assessment, and Security Auditing.

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[1] https://www.bafin.de/DE/PublikationenDaten/Datenbanken/Kryptowertpapiere/kryptowertpapiere_artikel.html

[2] https://chartered-investment.com/en/media/news/chartered-investment-und-smart-wealth-lancieren-ersten-tokenisierten-index-tracker-unter-ewpg/

[3] https://snowtrace.io/token/0x99ba97acd811fbb19cd979e157642f24a1005c39