

RASMUS GROTH

AI Engineer | Full-Stack Developer

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PROFILE

Engineer and serial founder. 15+ years building and shipping software: three exits, two patents, 30M+ DKK raised. Now builds production AI systems for top-5 pharma: LLM pipelines, agentic workflows, and RAG over proprietary data, plus React frontends that put those tools in users' hands. Comfortable owning the full stack from model to UI in a small team, and shipping something concrete rather than waiting for the perfect architecture. Also leads cross-functional AI delivery: product ownership, roadmap, and translating between scientists, business, and engineering. Python primary; also Rust and TypeScript.

CAREER HIGHLIGHTS

Production AI – Built agentic AI platforms, RAG systems, and LLM-powered tools used by scientists at top-5 pharma

Data Hub at Scale – Core contributor to one of the world's largest Neo4j knowledge graphs, unifying 5+ external data sources; architecting v2

3 Exits – Built and sold three companies, from idea to acquisition

30M+ DKK Raised – From investors including Worldpay, JP Morgan, Global Risk Technologies

2 Patents – Software for online collaboration and presentation tools; plus a high-value .io domain exit

TECHNICAL EXPERTISE

AI / LLM: Anthropic Claude API, agentic systems (LangChain, Langfuse, Deepagents, Biomni), RAG, prompt engineering, LLM-as-judge, NER/relation extraction, MCP

Languages: Python (primary), TypeScript/JavaScript, Rust, SQL, Bash, R

Frontend: React, Vite, TypeScript, Tailwind, shadcn/ui; Gradio, Streamlit, Chainlit for AI UIs

Backend & Integration: FastAPI, Django, REST APIs, webhooks, third-party API integration, SQLAlchemy

Data: PostgreSQL, Neo4j, Elasticsearch, MongoDB, data modelling; Airflow, ETL, Parquet, medallion architecture, Pandas

Cloud & DevOps: AWS (EKS, Batch, S3, SageMaker, Athena, Lambda, EC2, IAM), Docker, Kubernetes, CI/CD

PROFESSIONAL EXPERIENCE

ZS Associates, Intomics > ZS Discovery

Lead AI & Scientific Software Developer | Copenhagen / 2019 - Present

- Build production AI systems for top-5 pharma: agentic research platforms, LLM-powered drug repurposing tools, and literature-mining pipelines, from model to chat UI
- Orchestrate LLM workflows that combine public, licensed, and proprietary data via RAG, MCP, and internal APIs; ran a five-way evaluation of agent frameworks and frontier models to pick the stack
- Lead AI delivery across multiple departments as product owner and scrum lead: roadmap, prioritization, and alignment between scientific, data, and engineering teams
- Core contributor to one of the world's largest Neo4j knowledge graphs, integrating 5+ external data sources into one queryable hub; architecting v2 for query performance and integration
- Designed large-scale data pipelines for literature, patents, and clinical trials on AWS (Batch, S3) with medallion architecture
- Core developer on ZS Revelen, the company's flagship biomedical intelligence product

Veridu.com

Founder & CEO | London/Copenhagen / 2013 - 2018

- Founded and led Identity-as-a-Service platform using social media footprints and ML for identity verification
- Raised 13.3M DKK from Worldpay, JP Morgan, and Global Risk Technologies
- Customers included Worldpay and UK Government; architected microservices platform (PHP, Java, Angular, Docker)

Nuffly.com

Founder & CEO | Copenhagen / 2010 - 2013

- Built social media backup service for LinkedIn, Twitter, Facebook; evolved into foundation for Veridu

Ahead.com

Founder & CEO | Copenhagen / 2007 - 2010

- Created online Adobe-style collaboration tool for creative industry; sold to US partner in 2010
- Obtained two software patents for collaboration and presentation technologies

Bit Studios

Owner | Copenhagen / 2004 - 2007

- Ran sustainability-focused architecture studio; won competition to rebuild Varde city center; sold studio to fund Ahead.com

Royal Academy of Arts

Assistant Professor | Copenhagen / 2004 - 2007

- Taught in design and technology departments at the Royal Academy while running the studio

SELECTED TECHNICAL PROJECTS

Zunid – AI-operated trading system run as a human + AI-agent partnership. Agentic Python pipeline that discovers, backtests, and validates strategies; LLM-as-judge pre-scoring, automated critique, and a schema-validated markdown database for agent memory between sessions (private; walkthrough on request)

Suppleanten – Document-QA bot: Telegram -> FastAPI webhook -> RAG over source documents -> reply with link; FastAPI, Python. github.com/bliiir/suppleanten

Agentic AI Research Platform (ZS) – Agentic framework with data ingestion, MCPs, and a chat UI letting clients interrogate public, licensed, and proprietary data to form and test hypotheses; five-way evaluation of Biomni, Deepagents, frontier models, and the internal ZS framework

Riddam – Shipped full-stack web app: drum sequencer with React + Vite + TypeScript + Tailwind frontend, Express/PostgreSQL backend, Rust/WASM audio engine, AWS deployment with CI/CD. riddam.com

Band Sheets – Shipped full-stack web app for creating and sharing band lead sheets; React frontend, Node/Express API, MongoDB, Docker. band-sheets.com

Indication Expansion Engine (ZS) – LLM-powered drug-repurposing tool: NER-based literature ranking, automated correlation scoring, and validity checks on AI-generated summaries

MDQL – Open-source data layer: markdown files with YAML frontmatter, schema-validated and SQL-queriable. State store across several of my projects. github.com/mdql-db/mdql

EDUCATION & CERTIFICATIONS

Master of Architecture | The Royal Danish Academy of Fine Arts | 1998 - 2004

Certifications: Python, Django & AWS (CodingNomads) | R Programming (Johns Hopkins) | Python (University of Michigan)

PERSONAL

Based in Copenhagen. Languages: Danish (native), English (fluent). Married 25 years, two adult daughters. Outside of work: electronic music producer and funk band member (Sugartop Gang).