



SUMMARY

Experienced software engineer architecting scalable solutions for multi-cloud environments, optimizing developer experience across full-stack web development. Currently building GenAI-powered systems and intelligent automation.

SKILLS

AI LangGraph, LangChain, LangSmith, Ollama, MCP, PydanticAI, AutoGen, Claude API, OpenAI, Gemini and Tavily APIs · **Infrastructure** Kubernetes, AWS, GCP, Azure, Docker, Terraform, Nginx, Cloudflare, ZeroTier, Grafana, Loki, Tempo, Prometheus, GitHub Actions, CircleCI, Travis, Jenkins, TeamCity · **Back-End** Node.js, TypeScript, JavaScript, Python, Ruby, PHP, NestJS, Express · **Tooling** Turborepo · **Front-End** React, NextJS, Vue.js, Nuxt, HTML, CSS, PostCSS, SCSS, Wireframing · **Storage** PostgreSQL, Redis, BullMQ, MongoDB

RECENT PROJECTS

Newsify Today – AI news platform & ChatGPT App (MCP UI App)

ChatGPT App demo video 

Built and operate **Newsify Today** – an AI news platform and early **ChatGPT App** tracking web search trends across *16 regions* and *12 languages*, running an agentic AI pipeline to curate, score, and summarize news in *real time*.

- Built a **LangGraph**-based agent with *9 tools (scrape, summarize, validate, score, deduplicate)* processing trends end-to-end with *deterministic tool routing* and explicit step contracts.
- Self-hosted **Ollama (Qwen)** across *3 nodes* with *health-aware routing*, tier-based fallback to **Google Gemini**, and in-flight slot tracking – *keeping inference cost near zero*.
- Implemented a **Model Context Protocol** server with trend-news tool, embedded **React** widget (**OpenAI Apps SDK**), and *streamable HTTP transport* – launched as an early **ChatGPT App**.
- Run full stack on a *3-node Kubernetes* on-premises cluster – API, web, scraper, database, **Redis** queues, **Cloudflare Tunnel** ingress – with CI/CD via **GitHub Actions** and *rolling deploys*.
- **Server-Sent Events** pipeline streams AI-generated articles to **Next.js** frontend in *real time*, with *bridge-seeded first paint* and *fingerprint-based cache invalidation*.
- Full observability with **LangSmith**, **Grafana**, **Loki** – logs, traces, and metrics from server and browser, with *tracing for every AI agent run*.

Stack: TypeScript, Python, NestJS, Next.js, React, LangGraph, LangChain, Ollama, Gemini API, PostgreSQL, Redis, BullMQ, MicroK8s, Docker, Cloudflare Tunnels, Grafana/Loki/Tempo, MCP SDK, Vite, Turborepo

EXPERIENCES

- **Senior Engineer (AI, Infrastructure, Developer Experience) at heyData GmbH, Berlin** 01/2022 - 08/2025
 - **Senior AI Solutions Engineer** 10/2024 - 08/2025
 - Integrated **OpenAI** and **Tavily APIs** to build an AI system that analyzed newly signed up customer input to identify GDPR-relevant vendors they use, automatically retrieving hosting and data storage locations, DPO emails, and privacy policy links.
 - Evaluated AI Agent frameworks (**PydanticAI**, **AutoGen**) for solving *domain-specific challenges*.
 - **Senior Infrastructure Engineer** 10/2023 - 10/2024
 - Created **Kubernetes** and **Terraform** setups from scratch for scalable infrastructure and reliable deployments.
 - Led migration from **ECS** to **Kubernetes (EKS)** with *zero downtime*.
 - Worked with **AWS** suite (**Fargate**, **ECS**, **CloudFormation**, **ECR**, **RDS**, **Cloud Map**, **EC2**, **Route53**, **Lambda**) for service deployment.
 - **Senior DX Engineer** 01/2022 - 10/2023
 - Built with **JavaScript**, **TypeScript**, **NestJS**, **NextJS**, **Rails**, and **Vue**.
 - Migrated from monolithic to *microservices architecture*
 - Restructured legacy **Rails** systems into a monorepo, **Dockerized** applications, and established local development environments for efficient onboarding.
 - Built CI/CD pipelines using *GitHub Actions*, integrated AWS ECR, and introduced *Terraform* for environment provisioning.
 - Implemented *event-driven scheduling* via **AWS EventBridge** for automated client reminders.
 - Developed DevOps and DX tooling to automate daily tasks.
 - Maintained **Docker Compose** setups for service orchestration.
 - Mentored team members and contributed to technical hiring.
- **Software Architect at Talented Square, CA** 08/2015 - 08/2016
 - Led front-end development for ASDA UK (Walmart) online wholesale seller portal
 - Designed architecture for a recruiting startup with focus on performance optimization
- **Senior Software Architect at Société Générale Digital Factory, Berlin** 09/2019 - 05/2020



- AI/ML workloads, deployed models to **Azure CUDA**
- Developed decentralised authentication system with **OAuth2** to integrate multiple partner and parent company systems
- Contributed to AI systems via **Jupyter Notebooks**
- Implemented cloud infrastructure and **CI/CD** pipelines for secure product delivery
- Implemented and configured MVP boilerplate with monorepo, automated semantic versioning, and *testing strategies*
- **Senior Back-end Architect at GameBook AG, Berlin** 12/2018 - 04/2019
 - Architected and refactored back-end services, developed full-stack features for gaming content management platform
- **Lead Front-End Developer at Groupe Chantelle, Digital Lab, Berlin** 08/2017 - 12/2018
 - Led front-end team: recruitment, onboarding, mentoring, and delivery
 - Modernized front-end architecture, implemented code quality tools, and established DevOps processes
 - Migrated from monolithic to microservices architecture, expanded team to full-stack
 - Implemented and inspected A/B testing
 - Built UI component library bridging UX and front-end into a unified design system
- **Full-stack JavaScript Engineer at Pixsy GmbH, Berlin** 01/2017 - 08/2017
 - Implemented full-stack **JavaScript** features across client and server
 - Developed **AWS Lambda** functions for queue processing system for image analysis and copyright claim management
 - Established quality standards through test coverage (*unit, integration, E2E*) and code reviews
 - Integrated data across **MongoDB, Stripe, Salesforce**; monitored health via **Sentry**

EARLIER EXPERIENCES

2005–2015

Founder NOD studios, Istar	Full-stack web ... FOX (NOW) TV C	Founding Front... projectz, Istanbul	Full-stack devel... WPP / JWT, Istan	Full-stack devel... Ping Digital Agen	Front-end deve... Tribal DDB Wor...	Designer, front... Kocak Dizayn, Is...	Designer & Fro... MedyaNova, Istan
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EDUCATION

Computer Programming and Technologies at Kadir Has University
2003 - 2007

INTERESTS

Music · Swimming · Photography · Sci-Fi · 80s · Design.