Furkan Tunalı CV

Name: M. Furkan TUNALI · **Current residency:** Berlin   **E-mail:** mail@furkantunali.com · **LinkedIn** · **GitHub** · **Web**

SUMMARY

Experienced AI, software and platform engineer building scalable full-stack systems, cloud infrastructure, and agentic AI pipelines.

SKILLS

AI LangGraph, LangChain, Ollama, MCP, PydanticAI, AutoGen, Claude, OpenAI and Gemini APIs · **Infrastructure** Kubernetes, AWS, GCP, Azure, Docker, Terraform, Nginx, Cloudflare, Grafana, Loki, Prometheus, GitHub Actions, CircleCI, Jenkins, TeamCity · **Back-End** Node.js, TypeScript, JavaScript, Python, Ruby, PHP, NestJS, Express · **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 App)

▶ ChatGPT App demo video

Near zero-cost, self-hosted Agentic AI pipeline curates, reviews, scores, and summarizes trending news in *real time* across the world.

- **LangGraph** agent with self-hosted **Ollama (Qwen)** (3 nodes) + **Gemini** fallback; **MCP** server shipped as **ChatGPT App**.
- Self-hosted **Kubernetes**, **SSE** to **Next.js**, **GitHub Actions** CI/CD, **Grafana** observability.

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

EXPERIENCES

AI, Platform and DX Engineer **at heyData GmbH, Berlin**
01/2022 - 08/2025

- **Senior AI Solutions Engineer** 10/2024 - 08/2025
  - Built AI workflow with **OpenAI** & **Tavily APIs** analyzing customer input to auto-identify GDPR vendors, researching hosting locations, DPO emails, and privacy policy links for compliance automation.
- **Senior Platform Engineer** 10/2023 - 10/2024
  - Led **ECS** to **Kubernetes (EKS)** migration with zero downtime; built **Terraform** IaC across **AWS** (Fargate, ECS, ECR, CloudFormation, RDS, EC2, Cloud Map, Route53, Lambda); mentored new DevOps members
- **Senior DX and Full-stack Engineer** 01/2022 - 10/2023
  - Restructured **Rails** monolith into *25+ microservices* monorepo; implemented **Docker Compose** for fast and reliable development iterations; *CI/CD* & **AWS ECR**; implemented **EventBridge** scheduling; established, supported, hired and mentored engineering team; built DX tooling.

Stack: TypeScript, JavaScript, Python, NestJS, Nuxt, Vue, Rails, Kubernetes, EKS, Terraform, AWS (ECS, ECR, CloudFormation, EventBridge), Docker, GitHub Actions, OpenAI API, Tavily, PydanticAI

Full-stack JavaScript Engineer **at Pixsy GmbH, Berlin**
01/2017 - 08/2017

BDD tests; queue system with **AWS Lambda**; integrations of **MongoDB**, **Stripe** & **SalesForce**.

Stack: React, Redux, AWS Lambda, Koa, MongoDB, Stripe, SalesForce, Sentry

Senior Software Architect **at Société Générale, Berlin**
09/2019 - 05/2020

Containerized *AI/ML* models and **Jupyter Notebooks** with pipeline to **Azure CUDA**; integrated **Microsoft Entra ID**, MVP monorepo orchestration; hired and supported engineers; planning of architecture.

Stack: Azure, Docker, Vue.js, TypeScript, GraphQL, Apollo, PostgreSQL, Azure Functions, GitHub Actions

Senior Back-end Architect **at GameBook AG, Berlin**
12/2018 - 04/2019

Profiled performance bottlenecks, drove data migrations, and improved containerization and workflows.

Stack: Ramda, Node.js, React, Redux, GraphQL, AWS, Docker, MongoDB, TeamCity

Lead Front-End Developer **at Chantelle, Berlin**   08/2017 - 12/2018

Managed front-end team (hiring, onboarding, planning); restructured monolith to microservices, introduced code quality conventions, automated tests, A/B testing, and UI component library bridging UX and engineering.

Stack: React, GraphQL, Redux, AWS, Koa, MongoDB, WebPack, Magento

Software Architect **at Talented Square, CA**   08/2015 - 08/2016

Led front-end refactoring for ASDA and Walmart; implemented MVP for recruiting startup.

Stack: Angular, JavaScript, Backbone, LoopBack, MySQL, MongoDB

EARLIER EXPERIENCES

Founder	**Full-stack web developer**	**Founding Front-end Engineer**	**Full-stack developer**	**Full-stack developer**	**Front-end developer**	**Designer, front-end and Flash developer**	**Designer & Front-end developer**
NOD studios	FOX TV Channels	projectz	WPP / JWT	Saatchi & Saatchi	Tribal DDB	Koçak Design	MedyaNova
Design, Web & mobile for BeinSports, Les Benjamins, Ulker	Design, Social apps & CRM for Samsung, National Geographic, Nokia	UI design & development for QA startup	CRM/CMS/Web services for Miller, Turkcell, Eston, Efes	Web development for Garanti BBVA & Turk Telekom	Front-end for Turk Telekom	Led UI for a art marketplace startup	Websites including Best Western Hotels

EDUCATION

Computer Programming **at Kadir Has University**   2003 - 2007

INTERESTS

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