



INFO

Name: M. Furkan TUNALI · **Current residency:** Berlin

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 · **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

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

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** and MVP monorepo orchestration; represented the organization among global software architects to align roadmaps, and drove key decisions on infrastructure, tooling, and security.

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

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

EARLIER EXPERIENCES

Founder

NOD studios
11/2012 - 07/2015
Design, Web & mobile for BeinSports, Les Benjamins, Ulker

Full-stack web developer

FOX TV Channels
01/2012 - 12/2012
Design, Social apps & CRM for Samsung, National Geographic, Nokia

Founding Front-end Engineer

projectz
06/2011 - 12/2011
UI design & development for QA startup

Full-stack developer

WPP / JWT
05/2009 - 06/2011
CRM/CMS/Web services for Miller, Turkcell, Eston, Efes

Full-stack developer

Saatchi & Saatchi
05/2008 - 03/2009
Web development for Garanti BBVA & Turk Telekom

Front-end developer

Tribal DDB
Worldwide
03/2009 - 05/2009
Front-end for Turk Telekom

Designer, front-end and Flash developer

Koçak Design
05/2008 - 03/2009
Led UI for a art marketplace startup

Designer & Front-end developer

MedyaNova
05/2005 - 02/2007
Websites including Best Western Hotels

EDUCATION

Computer Programming and Technologies at Kadir Has University

CONTACT

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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, OpenAI App SDK, Turborepo

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

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

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

INTERESTS

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