

Info

Name: M. Furkan TUNALI · Current residency: Berlin

Contact

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Summary

Experienced software engineer architecting scalable, innovative solutions for multi-cloud environments, optimizing developer experience across web development, full-stack. Currently exploring AI to reimagine software functionality and create intelligent solutions. Background in leadership, founding, and design.

Skills

AI PydanticAI, AutoGen, Jupyter Notebooks, OpenAI API, Tavily API · **Cloud** AWS (EKS, ECS, CloudFormation, Lambda, Fargate, ECR, RDS, Cloud Map, EC2, Route53, IAM, EventBridge), Azure (Azure Active Directory, Azure Functions, Cosmos DB), GCP (Vertex AI, Cloud Vision API, Cloud Run, Cloud Storage), · **Containerization and Orchestration** Kubernetes, Docker products · **IaC** Terraform, CloudFormation · **CI & CD** GitHub Actions, Travis, Jenkins, TeamCity · **Languages and Markup** Node.js, TypeScript, JavaScript, Python, Ruby, PHP, HTML, CSS, PostCSS, SCSS · **Frameworks & Libraries** NestJS, React, NextJS, Vue.js, Express · **DB** MongoDB, PostgreSQL · **Design** UI Design, Wireframing, Branding, Print Design · **Other** Git, Nginx · **Languages** Turkish - Native, English - Advanced, German - A1

Experiences

Senior AI Solutions Engineer at heyData GmbH, Berlin 10/2024 - 08/2025

- Integrated OpenAI and Tavily APIs to build an AI-powered system that analyzed customer input to identify GDPR-relevant vendors, automatically retrieving structured data such as hosting locations, DPO emails, and privacy policy links.
- Researching about how to utilise AI Agent frameworks (PydanticAI, Autogen) to solve current challenges in the company.

Senior Infrastructure Engineer at heyData GmbH, Berlin 10/2023 - 10/2024

- Created Kubernetes and Terraform from scratch for scalable infrastructure setup and reliable deployments.
- Drafted technical implementation details to guide project development and ensure consistent coding standards across teams.
- Led successful migration from ECS to *Kubernetes* (EKS), learning the technology from scratch and executing a smooth switchover with zero downtime.
- Worked with AWS suite (Fargate, ECS, CloudFormation, ECR, RDS, Cloud Map, EC2, Route53, Lambda) to improve service deployment.
- Supported infrastructure initiatives including Route53 configuration, domain management, and DMARC reporting setup for email delivery.
- Addressed critical technical incidents and provided rapid resolution to maintain continuous service availability for customers.

Senior Developer Experience Engineer at heyData GmbH, Berlin 01/2022 - 10/2023

- Developed software solutions using JavaScript and TypeScript, with a focus on modern frameworks such as NestJS, NextJS, Rails, and VUE.
- Migrated infrastructure from Heroku to AWS ECS.
- Restructured legacy Ruby on Rails systems into a monorepo, Dockerized applications, and established reliable local development environments enabling efficient developer onboarding.
- Built CI/CD pipelines using *GitHub Actions*, integrated AWS ECR, and introduced *Terraform* to streamline environment provisioning across Testing and Production.
- Implemented an event-driven scheduling system using AWS EventBridge to automate client reminders without building a custom solution.
- Developed DevOps and DX tools, including Makefile and Bash scripts, to automate routine tasks and improve development workflow efficiency.
- Maintained Docker Compose setups for service orchestration and environment consistency.
- Mentored team members, offering structured and insightful feedback while serving as a trusted technical resource.
- Contributed to the hiring process by evaluating candidates with deep expertise in design patterns, best practices, and JavaScript.

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

- Established technical vision and drove adoption of architectural concepts aligned with enterprise requirements
- Implemented cloud infrastructure and CI/CD pipelines for secure, on-time product delivery
- Optimized containerization strategies for AI/ML workloads and deployed complex models to Azure CUDA for accelerated performance
- Integrated AI systems through Jupyter Notebooks while ensuring compatibility with parent company services
- Enhanced developer experience through monorepo management, automated semantic versioning, and comprehensive testing strategies
- Designed full-stack boilerplates for MVPs and facilitated data migrations for upcoming services
- Led technical hiring, mentoring, and onboarding while implementing code quality standards through reviews and linting

Senior Back-end Architect at GameBook AG (Formerly Experimental Game GmbH), Berlin 12/2018 - 04/2019

- Architected and refactored back-end services while developing full-stack features for gaming platform
- Optimized system performance through comprehensive profiling and containerization implementation
- Enhanced development infrastructure through improved tooling and strategic data structure migrations

Lead Front-End Developer at Groupe Chantelle, Digital Lab, Berlin 08/2017 - 12/2018

- Led front-end development team, overseeing recruitment, onboarding, and mentoring while ensuring delivery of projects within sprint timelines
- Modernized front-end architecture while preserving functionality, implementing code quality tools, and establishing DevOps processes for accelerated development
- Orchestrated migration from monolithic architecture to microservices and expanded team capabilities from front-end to full-stack development
- Implemented Agile methodologies with robust code review processes and facilitated data-driven development through A/B testing solutions
- Developed UI component library that bridged UX and front-end teams, creating a unified design system and improving cross-functional collaboration

Universal JavaScript Engineer at Pixsy GmbH, Berlin 01/2017 - 08/2017

- Implemented full-stack JavaScript features while maintaining and migrating existing functionality across both client and server environments
- Developed and maintained microservices architecture, continually improving system design and technical stack to enhance performance and scalability

- Established robust quality standards through comprehensive test coverage (unit, integration, E2E), code reviews, and adherence to development conventions
- Integrated and maintained data across multiple platforms (MongoDB, Stripe, Salesforce) while monitoring application health via Heroku and Sentry
- Followed Kanban workflow with Agile methodologies to ensure efficient delivery and continuous improvement

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

- Led front-end development and architectural improvements for ASDA UK (Walmart) online wholesale seller portal
- Designed architecture for a recruiting startup, focusing on performance optimization and modern frameworks
- **Technical Skills:** JavaScript, React, Redux, Angular, Backbone, LoopBack, Webpack, Gulp, AMD, HTML, CSS/SCSS, jQuery, MySQL

Founder at NOD studios, Istanbul 11/2012 - 07/2015

- Led design and development for diverse clients including BeinSports, Les Benjamins, Ülker, and Gripati
- Delivered comprehensive web solutions: e-commerce platforms, content management systems, mobile-optimized websites, and APIs
- Created UX/UI design, wireframes, and mockups for web and mobile applications
- Contributed to open source projects on GitHub
- **Technical Skills:** JavaScript, PHP, HTML/CSS, LESS, CanJS, Mustache, WordPress, CakePHP, Codelgniter, AMD

Full-stack web developer at FOX International Channels, Istanbul 01/2012 - 12/2012

Development of some social app and microsite web development for some clients including: Samsung Turkey, National Geographic Turkey, Nokia Turkey, True Blood TV show, Glee TV Show, TerraNova TV show

Front-end developer and designer at projectz, Istanbul 06/2011 - 12/2011

Front-end coding, refactoring and web design for startup project yardimlazim.com

Full-stack developer at Manajans / JWT, Istanbul 05/2009 - 06/2011

Development of websites, CMS development, online communities, social apps and microsities for some clients including: Miller, GncTurkcell / Turkcell, Eston Yapi, First, Bomonti, Efes, TeraYatirim

Front-end developer at Tribal DDB Worldwide Istanbul (formerly Manadigital) 03/2009 - 05/2009

Front-end development for Türk Telekom

Full-stack developer at Ping Digital Agency Istanbul (formerly OnKaplan) 05/2008 - 03/2009

Front-end development for some clients including: Garanti BBVA, Türk Telekom

Designer, front-end and Flash developer at Koçak Dizayn, Istanbul 05/2008 - 03/2009

Design, concept art creation, front-end development and illustration for an online art community startup.

Designer and front-end developer at MedyaNova, Istanbul 05/2005 - 02/2007

Design and front-end web development for various web projects mostly regarding travelling, hotel and hotel franchise clients like Best Western Hotels.

Internship at MedyaNova, Istanbul 04/2005 - 05/2005

Education

Computer Programming and Technology at Kadir Has University 2003 - 2007

Interests

Swimming · Vibe-coding · Photography · AI generated design and art · Video games · DJing and formerly founding the music label AmbientData · Contributing back to Open source projects · Experimenting with product ideas · Travelling · Ping-pong · Sci-Fi · 80s Exploring print, product, interior and typography design · Staycations.