Furkan Tunalı Résumé

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

Cloud Amazon Web Services (EKS, ECS, CloudFormation, Lambda, Fargate, ECR, RDS, Cloud Map, EC2, Route53, IAM), Microsoft Azure (Azure Active Directory, Azure Functions, Cosmos DB), Google Cloud Service (Vertex AI, Cloud Vision API, Cloud Run, Cloud Storage), Firebase, Azure DevOps Services, Heroku · **Containerization and Orchestration** Docker, Kubernetes, Docker Compose · **IaC** Terraform · **CI & CD** GitHub Actions, Travis, Jenkins, TeamCity · **Software Languages** Node.js / JavaScript / ECMAScript, TypeScript, Python, Ruby, PHP, SQL, C, C++, Bash, ASP, .NET, PIC · **Frameworks & Libraries** NestJS, React / Redux / Flux, NextJS, Vue.js, Angular, Backbone, Express, Koa, LoopBack, CakePHP, Lithium, CodeIgniter, RxJS, Serverless for Lambda, CanJS, Polymer, Aurelia · **Testing:** Jest, Mocha, Chai, Yadda, Webdriver.io, Selenium · **AI** OpenAI API, Jupyter Notebooks, AI Agents, AI Workflows, Google AI Studio · **DB** MongoDB, MySQL, SQLite, PostgreSQL, Cosmos DB, RethinkDB · **Front-end** HTML, CSS, LESS, SASS, SCSS, PostCSS · **Design** Adobe Photoshop, Sketch, Adobe Illustrator, Adobe Fireworks, UI Design, Wireframing / Mockup Design, Responsive Design, Web UX, Branding / Identity, Print Design · **Version Control** Git, SVN · **Other** NGINX, Apache HTTP Server, Webpack, Babel, Flow Type, Magento, HighlandJS, WebStorm, Protractor, jQuery, RequireJS, Underscore.js / lodash, PM2, WordPress, IBM API Connect, Bower, SystemJS, jspm, Homebrew, composer, pip, gem, PhoneGap, Appcelerator, fish Shell · **OS** macOS / OS X, Linux, Windows · **Design and Creative Tools** Web Design on the browser, UI Design, Wireframing / Mockup Design, Responsive Design, Web UX, Branding / Identity, Print Design, Adobe Photoshop, Sketch, Adobe Illustrator, Adobe Fireworks · **Methodologies and Development Practices** Functional Programming, Isomorphic / Universal Javascript, TDD (Test-Driven Development), BDD (Behavior-Driven Development), MVC (Model-View-Controller), MVVM (Model-View-ViewModel), OOP (Object-Oriented Programming), Prototypal OOP, OLOO (Objects Linking to Other Objects), AOP (Aspect-Oriented Programming), ES6 Modules, AMD (Asynchronous Module Definition), CommonJS, Mobile optimization · **APIs and Integration** OpenAI, SalesForce, Stripe, Mixpanel, Facebook, Twitter, Shopify, Flickr, Tumblr, WP REST, SoundCloud, Pinterest · **Languages** Turkish - Native, English - Advanced, German - A1

Experiences

Senior Infrastructure and Software Engineer at heyData GmbH, Berlin
01/2022 - Present

My contributions include:

- Designing and deploying *cloud infrastructure* with *Kubernetes* and *Terraform*, aiming for reliability.
- Optimizing developer workflows through *CI/CD pipelines* using *GitHub Actions* alongside creating useful *DevOps tools*.
- Maintaining *Docker* environments and crafting automation scripts with *Makefile* and *Bash*.
- Providing guidance and support in resolving complex technical challenges.

Technologies and tools I work with:

- A range of AWS services (*Fargate, ECS, CloudFormation, ECR, RDS, Cloud Map, EC2, Route53, Lambda*) to facilitate effective deployment and service management.
- Employing current web technologies like *JavaScript, TypeScript, NestJS, NextJS*, and database management with *PostgreSQL*.
- Building and managing microservices architecture using *Docker Compose*, coordinated with *Kubernetes*.
- Developing solutions with modern frameworks such as *Rails* and *VUE* for comprehensive full-stack capabilities.

Senior Back-end Architect at GameBook AG (Formerly Experimental Game GmBH), Berlin
09/2018 - 02/2019

Some of my tasks were:

- Implementing and refactoring back-end services.
- Developing features as full-stack.
- Profiling performance bottlenecks.
- Working with containerization and development cycle.
- Improvement of dev-tools.
- Migrations of existing data structure.

Some of the technology and services that I used so far:

- Node, AWS, TeamCity, Docker, WebPack, GraphQL, Ramda, React, Redux, AWS, Express, MongoDB, Atlassian tools, Github, JSS, Sass

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

My contributions include:

- Building the technical vision
- Driving the adoption of the technical concept
- Containerization and deployed complex AI models to Azure CUDA for speed
- Contributed to the integration of AI projects by editing and adapting Jupyter Notebooks.
- Optimized containerization strategies for AI/ML workloads and deployed them to Azure CUDA for accelerated performance.
- Enhancing DX (developer experience) through various initiatives including developer friendly monorepo management and deployment.
- Ensuring compatibility of in-house services with parent company related services through effective communication and research
- Ensuring the delivery of stable and secure products on time
- Researching, building, and maintaining cloud integrations and engineered artefacts
- Contributing to the building of initial full-stack boilerplates for MVP
- Migrating existing data structures into upcoming services
- Integrating fully automated continuous delivery, deployment, and development
- Implementing comprehensive testing strategies
- Participating in the planning and hiring of a new development team from scratch
- Pair programming to enhance team collaboration
- Mentoring and onboarding new team members
- Conducting code reviews and implementing linting strategies for improved code quality and consistency
- Automating semantic code versioning and conventions
- Researching and applying data storage solutions

Technologies and tools I work with:

- Microsoft Azure, Github Actions, Node, Vue.js, TypeScript, Docker, WebPack, GraphQL, Apollo, Express, Cosmos DB, PostgreSQL, Azure Active Directory, Azure Functions, OpenID Authentication, Jest, Web Components, Stencil.js, Jupyter Notebooks

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

Some of my tasks were:

- Managing and being responsible for the actions of Front-end team.
- HR, interview, boarding and hiring process
- Modernizing front-end architecture without losing existing functionalities and values.
- Making sure codebase is improved and streamlined.
- Implementing code quality-assuring tools and automated of tests.
- Implement dev-ops tools and a new eco-system to act develop faster.
- Helping with the conversion from monolith systems into separated micro-services when possible.
- Following Agile methods.
- Reviewing codes.
- Migrating from Front-end to being a Full-stack team.
- Mentoring, inspiring, guiding or helping front-end team when possible.
- Helping to achieve being data-driven and implementing A/B testing solutions.
- Making sure the projects will be fitted into sprints and acting if they are not going as planned.
- Tracking the development of UI library for connecting the UX team and Front-end team components as a bridge.

Some of the technology and services that I used so far:

- Node, Magento, WebPack, React, GraphQL, Redux, FlowType, AWS, Koa, MongoDB, Babel, Functional Programming, Atlassian tools, Github

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

My responsibilities were:

- Delivering new features on both ends with using JavaScript.
- Delivering code with the unit, integration and E2E covered tests.
- Maintaining or migrating existing features.
- Developing and maintaining micro-services.
- Improving our architecture and stack when it's possible.
- Integrating and maintaining data on Mongo, Stripe and SalesForce.
- Keeping an eye on app health with Heroku and Sentry reports.
- Following KANBAN with some Agile methods.
- Reviewing codes from our team's pull requests.
- Following our code conventions and guidelines.

Some of the technology and services that I used:

- Node, Lambda/Serverless, React, Redux, FlowType, AWS, WebPack, Webpack Isomorphic Tools, Koa, MongoDB, Babel, HighlandJS, SalesForce API, Mixpanel, Mocha, Chai, Yadda, Webdriver.io on top of Selenium, Stripe API, Sentry, Github

Founder, full-stack web developer and designer at NOD studios, Istanbul
11/2012 - 07/2015

Some of the projects:

- Web development and design for Gym & Tonic
  Some of the project skills: Design, JavaScript, PHP, HTML, LESS, CSS, CanJS, Mustache.
- Web development for Silent + Blessed
  Some of the project skills: Design, JavaScript, HTML, LESS, CSS, CanJS, Mustache.
- Web development and design for Mirjam Schmitt
  Some of the project skills: Design, JavaScript, HTML, LESS, CSS, CanJS, Mustache, WordPress, WordPress JSON API.
- Web development and design and UX consultancy for Les Benjamins
  Some of the project skills: Wireframing, Mockup, Design, JavaScript, HTML, LESS, CSS, CanJS, Mustache, CakePHP.
- Web development, design, mobile app design, UX design and refactoring legacy code for etiqadd
  Some of the project skills: Wireframing, Design, JavaScript, AMD, PHP, CodeIgniter
- Social web app design and gamification for Gripati
  Some of the project skills: Wireframing, Design, JavaScript, AMD, PHP, CodeIgniter
- Front-end mobile web development for LigTV
  Some of the project skills: Mobile optimisation, HTML, CSS, JavaScript
- Internal website design and full-stack web development for Ülker
  Some of the project skills: PHP, CakePHP, HTML, CSS, JavaScript
- Server-side web RSS aggregator API development for a mobile app of MB Apps
  Some of the project skills: CakePHP, PHP
- Full-stack web development for Umut Üzümleri movie
  Some of the project skills: Design, HTML, CSS, JavaScript
- Open source projects and libraries at Github

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 microsites for some clients including:

Miller, GncTurkcell / Turkcell, Eston, First, Bomonti, Efes, TeraBrokers (Formerly TeraMenkul)

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

Front-end development for some clients including:

patlican / avea, TTNET

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

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

Interests

Swimming · 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 · Exploring craft beers · Exploring architecture.