

Tolga Kurt, Full-Stack Software Developer

I have 10+ years of experience in writing robust code, designing systems, and laying out concise and consistent user interfaces. I evaluate problems carefully and favor simple solutions trying to avoid redundant complexity.

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SKILLS

Languages - JavaScript ES5/ES6, TypeScript, Java, C++11/14, C#.NET, PowerShell, PHP, Perl

Frameworks - React, AngularJS, Apache Cordova, Dropwizard, Serverless

Platforms - Node.js, GitLab, AppVeyor, MongoDB, Redis, MySQL, Docker, Kubernetes

Cloud and IoT - AWS (Lambda, IVS, Cognito, IoT Core, S3, etc.), Azure (IoT Hub, Functions), Esp8266, Arduino

EXPERIENCE

Software Engineer - Meta May 2022 — Present
Currently a bootcamper.

Full-Stack Developer - Booking.com Apr 2020 — May 2022
A member of the upper funnel team in the Attractions track.

- Migrated the product search and review functions to micro-services of their own.
- Helped the migration to a micro-frontend architecture backed by a GraphQL powered orchestrator.

Senior Software Engineer - LARSA, Inc. (<http://larsa4d.com>) Aug 2017 — Mar 2020
LARSA, Inc. is a New York based company that develops the most premier simulation software for the design of billion-dollar bridges. I helped LARSA to set up its Turkey office and lead junior members of the team.

- Implementing the next generation of simulation tools using C++11/14 and C#.NET.
- Implementing report generation tools which validate the structural models using C#.NET and JavaScript.
- Migrated all CI/CD processes to the cloud using AppVeyor.

Software Developer & Research Assistant - Middle East Technical University Dec 2014 — July 2017
Lead a team of 3 software developers. Also instructed a technical drawing class of 100+ students for 3 semesters.

- Designed and implemented a department management system using AngularJS, Node.js, and MySQL.
- Created a web-based UI and analysis management tool using AngularJS, three.js, and Node.js.

Co-founder - Playnex July 2013 — Nov 2014
Full-stack entrepreneur from ideation to the market and beyond: design, implementation, and management of Playnex mobile application which is installed on 200+ venues and hit 50k+ users in 6 months.

- Developed a hybrid mobile application for Android and iOS.
- Developed a node-webkit (now called NW.js) based music player for Windows and macOS.
- Implemented RESTful HTTP and socket servers using Node.js, Express, and MySQL.

Software Developer & Research Assistant - Middle East Technical University Feb 2011 — June 2013
Migrated most of the administrative services of the Civil Eng. Dept. to a newly developed web environment.

- Created a department-wide web-based administration software using PHP and MySQL.
- Created a graphical user interface using C++ and Qt for a full-featured FEA application.

EDUCATION

Master - Middle East Technical University, Structural Engineering / CGPA: 3.57 Feb 2011 — June 2014

Bachelor - Middle East Technical University, Civil Engineering / CGPA: 3.12 Sept 2003 — Feb 2011

AWARDS

Best Assistant - Middle East Technical University, Civil Eng. Dept. Nov 2015
Awarded for distinguished work and effort in IT services.

Entrepreneurial Seed Funding - TÜBİTAK Feb 2013
Deemed appropriate for being funded for the project "Development of an Isogeometric Analysis Software".

Honor Student - Middle East Technical University Jan 2011
Graduated as an Honor Student. Also enlisted twice in High Honor Roll previously.

PUBLICATIONS

Application of Artificial Neural Networks on Building Energy Estimation - ICENTE'17 Dec 2017
In this study, an Artificial Neural Network, capable of forming different network topologies and using several activation functions, is developed to estimate the energy performance of the buildings efficiently.

A Cloud Based Workflow for a Finite Element Analysis Preprocessor - CCP: 107 Mar 2015
This paper presents a cloud based workflow for the creation and analysis of FEA models with a web-based GUI and a modular backend which consists of many workers that are distributed over a network of virtual machines.