

Tolga Kurt, Senior Software Engineer

A wide-spectrum software developer with 9+ years of professional experience in writing robust code, designing systems, and laying out concise and consistent user interfaces. Evaluates problems carefully and favors simple solutions trying to avoid redundant complexity. Looking for a challenging position in an agile environment.

Born in Sept 1985 | Married | Living in Antalya, Turkey | Can relocate

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<http://tolgakurt.info> | <https://www.linkedin.com/pub/tolga-kurt/64/312/b03> | <https://github.com/tolgakurt>

SKILLS

Languages - JavaScript ES5/ES6, HTML5/CSS3, C++11/14, C#.NET, C, PowerShell, PHP

Frameworks and Platforms - AngularJS, React, Node.js, Apache Cordova, AppVeyor, MongoDB, MySQL

Cloud and IOT - Esp8266, Arduino, Azure IoT Hub, Azure Funcions

EXPERIENCE

Senior Software Engineer - LARSA, Inc. (<http://larsa4d.com>) Aug 2017 — Present

Set up LARSA's, which is a New York based company that develops advanced software for the simulation of bridges, 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 & Instructor - Middle East Technical University Oct 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 — Oct 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.
- Maintained the website, payment systems, usage analytics tools, etc.

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.
- Teaching assistant in some programming related courses.

EDUCATION

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

Related coursework: Advanced Graphics and User Interfaces, Software Design Patterns, Machine Learning

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

CERTIFICATIONS

MongoDB - Certified Developer, Associate (C100DEV) / ID: 206-959-112 Nov 2019

Microsoft - Programming in HTML5 with JavaScript and CSS3 (70-480) / ID: 17590750 July 2019

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.