

# MUSTAFA GOLEC

## Software Engineer

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## EXPERIENCE

### Simulation and Software Engineer

#### Taşıt Dinamiği Kontrol Teknolojileri A.Ş.

- Oct 2023 – Present Bursa, TR
- Back-end development using JavaScript, Node.JS and MongoDB
  - Interactive 3D animations for company web site using ThreeJS
  - Performing real-time vehicle driving and dynamic tests with various scenarios using CarMaker/TruckMaker
  - Drawing 3D vehicle and object models with Blender for simulations
  - Designing test environments for simulations
  - Designing new maneuvers for simulations or transferring real scenarios to the test environment
  - Preparing result reports, instructions and user manuals for simulation scenarios
  - Preparing flow charts for company products and projects
  - Preparing 3D animation videos explaining company projects to be used at technology fairs
  - Autonomous driving simulations with the AWSIM project on Unity using ROS2 on Ubuntu

### Front-End Developer Intern

#### TURKER YAZILIM

- Jun 2022 – Aug 2022 Bursa, TR
- Established an alternative web site for the product of the company "MÖBLESİS"
  - In-mail HTML ad page coding for advertising purposes

## EDUCATION

### Bursa Technical University

#### Computer Engineering - Master's Degree

Aug 2024 - Present Bursa, TR

### Kutahya Dumlupinar University

#### Computer Engineering - Bachelor's Degree

Sep 2019 - June 2023 Kutahya, TR

- GPA: 3.25

## PARTICIPATIONS

### Exhibition Staff

#### SAHA EXPO 2024 International Defence & Aerospace Exhibition

- Oct 2024
- Took on a role as exhibition staff at the company stand.
  - Preparing 3D animation videos explaining company projects to be used at technology fairs

## PUBLICATIONS

- Golec, M., Gill, S. S., Golec, M., Xu, M., Ghosh, S. K., Kanhere, S. S., ... & Uhlig, S. (2023). Block-FaaS: Blockchain-enabled serverless computing framework for AI-driven IoT healthcare applications. *Springer Netherlands Journal of Grid Computing*, 21(4), 63.
- Golec, M., Hatay, E. S., Golec, M., Uyar, M., Golec, M., & Gill, S. S. (2024). Quantum cloud computing: Trends and challenges. *Elsevier Journal of Economy and Technology*.
- Golec, M., Gill, S. S., Wu, H., Can, T. C., Golec, M., Cetinkaya, O., ... & Uhlig, S. (2024). Master: Machine learning-based cold start latency prediction framework in serverless edge computing environments for industry 4.0. *IEEE Journal of Selected Areas in Sensors*.
- Golec, M., Golec, M., Xu, M., Wu, H., Gill, S. S., & Uhlig, S. (2024). PRICELESS: Privacy enhanced AI-driven scalable framework for IoT applications in serverless edge computing environments. *John Wiley & Sons, Ltd Internet Technology Letters*, e510.

## LANGUAGES

Turkish  
English  
German



## TECHNICAL SKILLS

Node.JS Express.JS MongoDB  
CarMaker Simulink Blender Data Science  
Edge Computing Cloud Computing

## REFEREES

### Asst. Prof. Emre Gungor

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### Ridvan Ozturac

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## PROJECTS

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### Gunfight Simulator

#### Unity Engine / C#

A First Person Shooter game project which aims to provide high quality gameplay. It is still being actively developed in order to provide great gameplay quality as well as advanced mechanics that give the player freedom of gameplay.

- Platform : Windows

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### Driver

#### Unity Engine / C#

The game is a game project where you will avoid hitting the obstacles that appear in front of you on the endless road. It also includes various challenges, maps and difficulty levels to add color and fun to the gameplay, as well as providing superpowers to support the player.

- Platform : Android / IOS

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### Project : Unadapted

#### Unity Engine / C#

2D Platformer game with various mechanics. Besides basic movements, a save and load system, various animations and visuals, parallax background etc., it has many gameplay features.

- Platform : Windows

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### Golec Aricilik

#### Full-Stack Website

An E-Commercial site project about bee products. Alongside the products, the site offers its users information about beekeeping.

- Platform : Desktop & Mobile (Responsive)
- HTML, CSS, Bootstrap, JavaScript, Node.js, Express.js and MongoDB

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### Bildir-Kurtar

#### Front-End Website

The site is designed to report and display missing persons in case of earthquakes and possible natural disasters.

- Platform : Desktop & Mobile (Responsive)
- HTML, Bootstrap

## CERTIFICATES

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### The Web Developer Bootcamp 2025

#### Udemy

📅 Feb 2025

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### Node.js, Express, MongoDB & More: The Complete Bootcamp

#### Udemy

📅 Dec 2024

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### Beginner's Frontend Web Development

#### Patika.dev

📅 May 2022