



# EMRE İŞLER

📍 Home : Ankara, Türkiye

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Gender: Male Date of birth: 14/01/1989 Nationality: Turkish

## ABOUT ME

Experienced Software Engineer with a strong background in distributed system architecture. Skilled in crafting robust and scalable solutions, adept at optimizing performance within complex environments.

## WORK EXPERIENCE

[ 16/05/2022 – Current ]

### Senior Software Engineer | Full Stack

*Tucows Inc.*

City: Toronto - Remote | Country: Canada

Link: <https://www.wavelo.com/>

Architected and spearheaded multiple platform applications to enhance system functionality, performance and monitoring of Wavelo Telecommunications Application.

#### Key Responsibilities :

- **Concurrent Bash Script Runner:** Engineered a high-performance tool enabling concurrent execution of bash scripts for optimized operations.
- **Subscription Restore Application:** Created an efficient data alignment application to align critical subscription data across distributed databases and external systems.
- **Anomaly Detection Applications:** Designed and implemented multiple real time anomaly detection applications for various workflows.
- **Script Runner Slack Bot:** Implemented an application capable of executing bash scripts in production environments via slack and Web UI.
- **Authentication & Authorization Service:** Designed and implemented authentication and role based authorization service for internal platform applications.
- **Temporal Workflow Orchestrator:** Integrated Temporal workflow orchestrator into applications, optimizing complex distributed workflows.
- **Kafka State Machine:** Implemented multiple Kafka event flow monitoring tools, alerting on consumer timeouts, exposing detailed metrics to Grafana dashboards.
- **GraphQL Search Application:** Contributed to a extensive search application which is serving clients to run complex queries over multiple databases by using graphql.
- **Cloud Automation CLI:** Contributed to a command line interface application to simplify creating OpenStack instances and integrate them to Nomad, Vault and Consul namespaces for internal developers.

This role involved the strategic use of cutting-edge technologies like React (for frontend development), Java and Go (for backend services), GraphQL, Kafka, Redis and more to architect and deliver high-quality, innovative solutions, demonstrating proficiency across a range of associated technologies.

[ 15/01/2022 – 10/05/2022 ]

### Senior Software Engineer | Backend

*Demiroren Technology*

City: ANKARA - Remote | Country: Türkiye

Link: <https://www.misli.az/>

Developing a sports betting application tailored for Azerbaijan.

#### Key Responsibilities:

- **Campaigns Service:** Led the design and development of campaign services by utilizing Java & Spring Boot.

The app was data intensive and including high Kafka usage with 50+ micro services. It was running in Azure cloud and Kubernetes was used for orchestration.

[ 12/04/2021 – 10/01/2022 ]

### Senior Software Engineer | Full Stack

## **HAVELSAN - RDC Partner**

**City:** Ankara | **Country:** Türkiye

Development of a comprehensive web application for the National Defence Department built on a robust micro service architecture by using Java and Spring Boot.

### **Key Responsibilities:**

- **Business Process Model Module:** Led the development of a business process model module, incorporating a modeler to create BPMN models and a workflow engine server enabling the utilization of BPMN models across all project modules. Leveraged Flowable as the background orchestration tool for streamlined operations.
- **File Transfer Module:** Designed and implemented a file transfer module between public and private networks, ensuring secure and efficient data transmission within the project infrastructure.

[ 17/12/2020 – 01/03/2021 ] **Software Engineer | Full Stack**

**FREELANCE** <https://github.com/emreisler/HealthyAirApplication>

**Country:** Egypt

Development of an Android application with Java aimed at informing users about air quality concerning their health conditions and specific harmful gas concentrations at particular locations

### **The application's capabilities include:**

- Accepting user-provided disease information as input for tailored health recommendations.
- Establishing a Bluetooth connection to retrieve sensor data from an Arduino device.
- Sending gathered data to a web service which has a trained machine learning model to generate personalized air quality assessments for users.

### **Web Api Implementation:**

- Developed a web service hosted on Google Cloud Platform using Python Flask framework to accommodate trained ML models predicting air healthiness.
- Implemented a K-Nearest Neighbor algorithm for the trained model, assessing air quality based on gathered data.
- Utilized the Python Scikit-learn library for model implementation within the Flask-based service.

### **Arduino Implementation:**

- Utilized the HC05 Bluetooth module integrated into an Arduino device for connecting and transferring sensor data to mobile devices.
- Employed MQ135 and MQ5 gas sensors on the Arduino to collect and relay gas measurements.

This role involved leading the development of an Android application for air health monitoring, integrating machine learning models, Bluetooth connectivity with Arduino sensors, and a web service infrastructure to provide personalized air quality assessments.

[ 02/2020 – 09/2020 ] **Software Engineer**

**TUSAŞ**

**City:** Ankara | **Country:** Türkiye

Led the development of a desktop application engineered to execute a resistance welding cycle by interfacing with a DC power supply and a programmable logic controller (PLC) using Java.

### **The application boasts the following capabilities:**

- Activation and control of the power supply for executing the resistance welding process.
- Management of output data through the PLC.
- Real-time plotting of cycle outputs, encompassing voltage, current, and temperature data, for dynamic visualization during the welding process.
- Generation of cycle reports, enabling comprehensive and detailed analysis of the welding cycle.

### **External Libraries:**

- Leveraged the JavaFX framework for developing the user interface of the main program, ensuring a user-friendly experience.
- Employed the JVisa library to establish connections with the DC power supply, enabling communication and control.
- Utilized the JLibModbus library to establish connections with the programmable logic controller, facilitating seamless data exchange and control.

This role involved leading the development of a desktop application tailored for resistance welding control, integrating various external libraries for UI, real-time data visualization and communication with the DC power supply and PLC, enabling precise monitoring and control of the welding process.

[ 01/2017 – 09/04/2021 ]

## Software Engineer

### *TUSAŞ*

**City:** Ankara | **Country:** Türkiye

Development of a desktop applications to run and monitor manufacturing machines by using JavaFX.

#### **Production systems which all the cycles are being run/monitor by our desktop application:**

- Resin Transfer Molding Line, which includes 10 machines
- Preforming Line, which includes 5 machines.

This role involved leading the development of a desktop application tailored for resin transfer molding, integrating various external libraries for UI, real-time data visualization, enabling precise monitoring and control of the resin injection process.

[ 05/2013 – 01/2017 ]

## Manufacturing Engineer

### *Turkish Aerospace Industries*

**City:** Ankara | **Country:** Türkiye

Preparing flat patterns of plies and laser projection files for ply cutting and lay-up process by using CATIA V5 CPD module and SIEMENS FiberSIM programs.

Preparing manufacturing plannings containing all manufacturing instructions and information for each detail part/assembly.

Manufacturing of Agusta AW139 helicopters fuselage(6 months)

Manufacturing of Airbus A320 fuselage components(9 months)

Manufacturing of Airbus A350 ailerons(3 years)

[ 06/2011 – 12/2011 ]

## Field Engineer

### *Er Teknik Construction Industry*

**City:** Ankara | **Country:** Türkiye

Installation of Heating, Ventilating and Air Conditioning Systems on buildings.

Procurement of raw materials, parts, equipments and tools.

Preparation of as built drawings and progress payment documents.

[ 06/2010 – 10/2010 ]

## Pizza Maker

### *Dough Roller Pizza Restaurant*

**City:** Maryland

## EDUCATION AND TRAINING

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[ 07/01/2021 – Current ]

## Master's Degree - Computer Engineering

### *TOBB University of Economics and Technology*

[ 2006 – 2011 ]

## Mechanical Engineering

### *Çukurova University*

**City:** Adana | **Country:** Türkiye |

[ 2002 – 2006 ]

## High School

**City:** Ankara | **Country:** Türkiye |

## DIGITAL SKILLS

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### **My Digital Skills**

Java | Spring Boot | React | Go | Python | Kafka | Redis | Docker | Microservice Architecture  
| HTML5/CSS, Javascript | DevOps: AWS, Git. | Terraform / Ansible / Kubernetes / Docker / Jenkins

### Personal Projects

- Traffic – Developing a model which recognizes road signs with neural network model <https://github.com/emreisler/myprojects/tree/master/traffic>
- Nim game AI player <https://github.com/emreisler/myprojects/tree/master/nim>
- PageRank (Google' s page rank algorithm) <https://github.com/emreisler/myprojects/tree/master/pagerank>
- Online Shopping prediction <https://github.com/emreisler/myprojects/tree/master/shopping>
- Tictactoe game AI player <https://github.com/emreisler/myprojects/tree/master/tictactoe>
- Shortest path finder between two actors <https://github.com/emreisler/myprojects/tree/master/degrees>
- Minesweeper game AI player <https://github.com/emreisler/myprojects/tree/master/minesweeper>
- Knights and Knives Logic Game AI player <https://github.com/emreisler/myprojects/tree/master/knights>