



# Utku Arslan

## Computer Engineer

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### Education

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#### **Bahçeşehir University**

2019 – 2023

Relevant Coursework:

Istanbul, Turkey

- Machine Learning with R, Huawei - Cloud Systems, Introduction to Neural Networks, Data Management (SQL), Computer Networks, Data Structures, Algorithm Analysis, Software Design and Analysis, Digital Logic, Computer Organization, Database, Linear Algebra, Discrete Math

### Professional Experience

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#### **Data Professional, Jeton Digital / Internship** [↗](#)

01/2023 – 04/2023

- Creating a dataset with web scraping
- Processing data with python
- Developing artificial intelligence according to customer needs with **Pytorch**
- Developing a client-friendly software with django library
- Identification of needs in meetings held with customers

London, England

#### **Java Backend Developer, Kafein Technology Solutions / Internship** [↗](#)

06/2019 – 08/2019

- Server backend development and testing with Java.
- Identifying priorities that need to be developed in team meetings

Istanbul, Turkey

#### **HEAD OF DEVELOPMENT TEAM, SucooteRobotics**

2022

A team of university students which researches, develops, and implements projects about 'Autonomous Vehicles'

Istanbul, Turkey

- UNITY based application developed for controlling robot(AUSV).
- Linux based robot control application. Used TCP / UDP protocols for communication.
- By participating in the competition organized by the defense industry presidency, we came in 4th place out of 10.

#### **Software Developer, NeoGenesisia**

2018 – 2019

- art-themed app developed for Hololens in UNITY with team.
- Participated in TÜBİTAK qualifiers

Istanbul, Turkey

#### **Software Developer, DUKWARE - Android Applications** [↗](#)

2016

The company where we developed the ideas that came to our minds as an android application with my father.

Istanbul, Turkey

- Some applications that available on google play are: BurnTable, ColorSim, MagmeterHQ, Compass...

#### **Designer, BUYABI / University Club**

2019

- Social media post design
- Announcement poster design for the guests who will attend the event

## Skills & Certifications

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### Certifications

DP-900: Microsoft Azure Data Fundamentals

### Programing Language

( C# / Java / Python / C++ )

### Dev Applications

( Unity / Android Studio / Eclipse )

### Image & Data Process

( OpenCV / PyTorch / Neural-Network / YOLO )

### Database

( MYSQL / MSSQL )

### Embedded Systems

( Arduino / Raspberry PI )

## Projects

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### Snake AI with Neural Network, *Self Learning AI* [↗](#)

- Casual snake game with PyTorch Neural Network AI
- Snakes AI learns 'how to play' and improves itself by each generation
- Visualized with TkInter Library
- NN Model created with pygad.torchga Library
- <https://github.com/TkRsln/SnakeAI>

### Bacterias with Neural Network, *Self Learning AI* [↗](#)

2022 – present

- System creates 100 bacteria for every generation and bacteria gets score when they learn eating green foods.
- Genetic Algorithm codes gives priority depend on bacterias' score, for next generation.
- All classes ( include Matrix, Neural Network ) created from scratch.
- Neural network visualized with value of "weight" and "bias" to see its development

### Unmanned Surface Vehicle, *Autonom AI - ScooteRobotics* [↗](#)

2022

- The robot is designed for competition.
- The vehicle is expected to complete the parkours first manually and then autonomously.
- We came 4th out of 9 teams.
- The interior and Land Control codes of this vehicle were written by me
- Achievements such as image processing, use of sensors(gps, gyro etc...), controlling engines and PID values, have been gained.

### SQL - Server Setup, *MSSQL*

2021

- Creating table for storing user data
- Windows Server (MSSQL 2012)

### Database Design, *SQL*

2021

Designed E-R diagrams&database schema, wrote Create Table-Insert Into statements&SQL queries of them.

### Question Answering System, *Java*

2021

Wrote an algorithm that finds answers to random questions from the texts.

### Android Application, *MagmeterHQ* [↗](#)

2017

- Main goal of application is finding magnetic field in area.
- Customizable theme has created for the app.
- 50K+ download

### Android Application, *BurnTable* [↗](#)

2018

- It contains the formulas that doctors use in the treatment of burn patients.
- Simple UI, easy to use.

### Android Application, *ColorSim* [↗](#)

2018

helps to compare colors in gallery photos or camera live view.