

# CURRICULUM VITAE



**Buğra Veysel Yıldız**

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**Github**

(Some of the projects can be found via request due to copyrights)

## Education

### Universiteit Twente

Bachelor of Technical Computer Science [2019-Present]

### Holland ISC

Science and Engineering International Foundation Year [2018-2019]

### TED Ankara College Private School

Secondary School [2015-2018]

### Brookes University British Study Council

Summer School [2015]

## Languages

Turkish [Advanced]  
English [Advanced]  
German [Intermediate]  
Dutch [Beginner]

## Skills

HTML, CSS, JS  
Java  
SQL  
Wireshark  
Unix  
Visual Paradigm  
Python  
Haskell  
Prolog

## Relevant Coursework

Structures & Algorithmics  
Databases  
Functional Programming  
Network Systems  
Operating Systems and Hardware  
Intelligent Interaction  
Requirements Engineering  
Software Systems Construction  
Security  
Web Programming  
Algorithms & Data Structures  
Corporate Finance  
Investment Analysis  
Startup Valuation

## Work Experience

### Research and Development Internship at Innovalor September 2021 - November 2021

Worked for ReadID which is a SDK that verifies and authenticates the identity document by doing security check on the content of the RFID chip in the identity document. I was working with the face recognition part of the SDK. The goal was making direct input attack on mobile devices to manipulate the mobile phone camera to spoof the face recognition.

### Data Consultant at AlphaShift Consulting Group December 2021 - Present

As a data consultancy organization, we excel at supporting and leading our clients through a variety of data-related business solutions tailored to their respective industries. AlphaShift provides bespoke data services solutions for large and small private organizations.

### Teaching Assistant at University of Twente July 2020 - Present

Worked with professors and other faculty members often to assist them with various tasks like assisting them during lectures, practical courses, grading, etc. The modules that I have been Teaching Assistant are Data & Informations, Computer Systems and Organisation and Software Systems.

### Member of Programme Committee Computer Science at Inter-Actief September 2021 - September 2022

The Programme Committee-Computer Science of University of Twente is an advisory committee for the programme director and must be heard on all educational matters. This includes, amongst others, the programmes, study workload, schedules, complaints and course evaluations. In order to guard the quality of education, the committee concerns itself with the vision on education, the forms of educations, the common thread in the programme and the feasibility of the programme.

## Projects

### Smart Home Lightning System with Raspberry Pi

In this project, the target customer is anyone that wants to have a smart home system that controls the lighting of a LED strip depending on a set of criteria. The system is user-friendly and easy to be used. Creating an ambient and comfortable environment with the help of the colorful lights that adapt according to the preferences of the user or the content they are watching. This is a great alternative to the simple ambient light or light bulbs, but with a larger variety of options on controlling it, as well as switching on/off according to the LDR sensor where it can detect the light level within the room. In this project, I was responsible for the front-end of the project. I found opportunities to work with Google's Material Design, Modular front-end development and JS libraries (Iro.js, Swiper.js, Chart.js) to deliver the comprehensible product which can be used with both mobile phones and tablets.

### Event Security System

Digital centralized ticket system which aims to revolutionize the way entry tickets for events are distributed and checked. System uses PostgreSQL and RFID checker which is programmed for Arduino UNO. I was responsible for transport information from people who are registered from the app that we created via Django to database server that we created with using PostgreSQL. Performance and security of this database has been ensured with the statements.

### Trimm Running Sensor Dashboard

TRIMM Case Visualizing Runner Data project is creating a dashboard that should be built as a web application. This project has been based on sensor data and the TRIMM brand guide. The point of the Runner Assist is real-time feedback on runners' running technique to avoid the injuries and enhance the runner's performance concurrently. It was an opportunity for me to create a dashboard for a company that users can see their private or public running data.

### Lapis Compiler

In this project, we developed a complete compiler for the source language that we have defined. The target machine for compilation is a realistic, though non-existent processor called SPROCKELL, for which a hardware simulator is provided in HASKELL and the corresponding machine language is called SPRIL. Along the project, we went through a list of possible language features. The data types that we have included in our language are; basic types arrays, string, simple expressions and variables, basic statements and exception handling.

### Collecto

Collecto is a board game which we implemented by Java. It is a client-server multiplayer game. Two clients can connect to the same server, after which a game can be initiated. As the game is played, updates are communicated between client and server via the predefined protocol. Since many players can join in the server. It also hosts multiple games simultaneously. Players can also play the game with the AI players. Difficulty of AI players can be chosen from the menu.

### Venture Analysis - Kite Robotics

Kite Robotics is a spinoff of the University Twente. The company develops computer-based cleaning machinery for tall buildings. Over the past few years they have grown from a startup to second phase grow-company. Over the past year there was a need for financing during the different phases of development. We are asked to analyze by studying the investment opportunity and suggest whether the new opportunity for the startup should be pursued as a new company, that is worth investing in. Based on this, with the company interactions, we reported to decide whether this opportunity is worth developing as a new company. Forecast and an information memorandum to go to the market has been also made.

## Volunteering

### I.C.T.S.V. Inter-Actief

I.C.T.S.V. Inter-Actief is the study association for the studies Technical Computer Science, Business Information Technology and the corresponding masters at the University of Twente. Inter-Actief was founded on the 12th of March 1981 and has approximately 1300 members, making her the largest ICT-study association in the Netherlands.

## Certificates

### Risk Management

*eLearning College [June 2022]*

### Data Cleaning

*Kaggle [March 2022]*

### Data Analysis with Python

*FreeCodeCamp [December 2021]*