

# Burak Yetistiren

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## EDUCATION

**Bilkent University**  
*B.Sc. in Computer Science*

Ankara, Turkey  
September 2018 - June 2022

**Waseda University**  
*Exchange Study*

Tokyo, Japan  
April 2021 - September 2021

**Bilkent University**  
*Minor in Philosophy*

Ankara, Turkey  
September 2020 - June 2022

## PUBLICATIONS

1. **B. Yetistiren**, I. Ozsoy, and E. Tuzun. "Assessing the Quality of GitHub Copilot's Code Generation". In *Proceedings of the 18th International Conference on Predictive Models and Data Analytics in Software Engineering (PROMISE '22)*, Singapore, Singapore, November 17, 2022.

## EXPERIENCE

**Undergraduate Researcher**  
*Bilkent University Software Engineering and Data Analytics Research Group*

July 2021 – Current  
Ankara, Turkey

- For my research, I am working under the supervision of Asst. Prof. Dr. Eray Tuzun. We are performing an exploratory research study on GitHub's new service, GitHub Copilot, in terms of accuracy and potential limitations. In that regard, our paper named "Assessing the Quality of GitHub Copilot's Code Generation" is accepted to appear in the 18<sup>th</sup> International Conference on Predictive Models and Data Analytics in Software Engineering (PROMISE '22). Currently, we are working on an extension of our study for it to appear in the "Empirical Software Engineering" Journal.
- I regularly review papers of other members in our lab to find any possible errors, inconsistencies, and points to improve before their submission.

**Computer Vision Intern**  
*ArgosAI Technology*

July 2021 – September 2021  
Ankara, Turkey

- ArgosAI develops a product called A-FOD, an electro-optic system to detect the FODs (foreign object debris) and pavement anomalies on the runway surface of the airports.
- I have trained a generative adversarial network, which was trained with the data captured on one airport to generate images that can be used as training data for another airport. I have used PyTorch for implementing the "SPA-GAN: Spatial Attention GAN (Generative Adversarial Networks) for Image-to-Image Translation" architecture in my model.

**Software Development Intern**  
*JotForm Inc.*

June 2021 – July 2021  
Ankara, Turkey

- I have worked with the React.js framework to get information from submitted forms and show the submission information on a web application.

**Machine Learning Intern**  
*Bilkent University*

July 2020 – August 2020  
Ankara, Turkey

- I have implemented a deep learning model using Python, which predicts COVID-19 negative and positive cases with 70% precision using lung CT scans. I have worked under the supervision of Prof. Dr. Cigdem Gunduz-Demir.

## PROJECTS

**Rhapso** | *Technologies used: Java, Android Studio*

September 2021 – May 2022

- **Capstone Project**
- Online closet service
- Shopping suggestions considering the already existing clothes of the user, suggesting sustainable alternatives.

**Airline Customer Satisfaction Predictor** | *Technologies used: Python*

February 2021 – May 2022

- Project for **EEE485 Statistical Learning and Data Analytics**
- System that will predict the customer satisfaction for given parameters like Gender, Customer Type, Age, etc.

- Using Machine learning Techniques: Principal Component Analysis, Naive Bayes, Neural Network, Random Forest

**Annexation Game** | *Technologies used: Java, JavaFX*

September 2020 – December 2020

- Project for **CS319, Object Oriented Software Engineering**
- Implemented classical RISK board game with new features.

**Turna** | *Technologies used: C*

September 2020 – November 2020

- Project for **CS315, Programming Languages**.
- Designed a programming language for drones.
- Implemented lexical analyzer and parser for the language.

**SwapSwop** | *Technologies used: Java*

February 2019 – May 2019

- Project for **CS102, Algorithms and Programming**.
- Allowed users to post their items and the tasks they can swap.
- Implemented lexical analyzer and parser for the language.

## SKILLS AND ABILITIES

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**Natural Languages:** Turkish (Native), English (*CEFR Level: C1, Full-Professional Proficiency*), German (*CEFR Level: C1, Professional Working Proficiency*), Japanese (Elementary)

**Programming Languages:** Python, Java, C++, JavaScript

**Developer Tools:** Git, GitHub, GitHub Copilot, OpenAI API

**Applications:** Visual Studio IDE, Android Studio, IntelliJ IDEA, PyCharm IDE, Microsoft Office, L<sup>A</sup>T<sub>E</sub>X

## CERTIFICATES

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### Honor Student

*Bilkent University*

- Fall 2018, Fall 2020, Fall 2021

### TOEFL iBT English Proficiency Test

November 2021

*ETS*

- Score: 108/120
- Reading: 28/30, Listening: 29/30, Speaking: 23/30, Writing: 28/30

### German Language Proficiency Certificate

May 2018

*Federal Office of Administration*

- Level: C1

## COMMUNITY & EXTRACURRICULAR ACTIVITIES

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### Grader

September 2021 – January 2022

*Bilkent University*

*Ankara, Turkey*

- Graded quizzes of mostly first-year students for the Introduction to Calculus (MATH101) course, which I have taken at my first year.

### Volunteer

February 2019 – June 2019

*Bilkent Social Awareness Projects (TDP), The Sun Rises from the Village (GUNKOY)*

*Ankara, Turkey*

- Visited a village primary school in Tasova, Amasya, Turkey, to provide some schools needing a library by building one. Made some fun activities for the kids.
- Collected donations to be delivered to the village school before the visit.

*Bilkent Social Awareness Projects (TDP), Railway Line Support Project (DHDP)*

- Visited a village middle school in Dursunbey, Balıkesir, Turkey, to conduct science, arts, and sports activities. Informed the kids about the education opportunities they have for their future.
- I was the head of the periodic table team in this project. With my team, we collected supplies for a permanent periodic table construction for the science lab, and we constructed the table.

## HOBBIES AND INTERESTS

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**Travelling:** Visited USA, UK, Germany, France, Switzerland, Austria, Italy, Tanzania, Kyrgyzstan, Thailand, China, Hong Kong, Japan, and my homeland Turkey.

**Classical Music:** I like to go to live classical music performances. Visit my YouTube channel to see some live performances I recorded.