Burak Yetistiren

+90-506-306-0466 | burakyetistiren@hotmail.com | burakyetistiren.com | linkedin.com/in/burak-yetistiren | github.com/burakyetistiren

Education

Bilkent University — Ankara, Turkey
B.Sc. in Computer Engineering — *September 2018 - June 2022*
- Honors: *Cum Laude*

Waseda University — Tokyo, Japan
Exchange Study — *April 2021 - September 2021*

Bilkent University — Ankara, Turkey
Minor in Philosophy — *September 2020 - June 2022*

Publications

1. **Burak Yetistiren**, Isik Ozsoy, and Eray Tuzun. 2022. 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 2022). Association for Computing Machinery, New York, NY, USA, 62–71. https://doi.org/10.1145/3558489.3559072

Conferences Attended

1. **PROMISE '22**: 18th International Conference on Predictive Models and Data Analytics in Software Engineering. Singapore, Singapore, November 2022. **(paper presentation)**
2. **ESEC/FSE '22**: The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering. Singapore, Singapore, November 2022.

Experience

Undergraduate Researcher — July 2021 – Current
Bilkent University Software Engineering and Data Analytics Research Group (BILSEN) — *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" was accepted to appear in the "18th 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.

Machine Learning & Computer Vision Intern — July 2021 – September 2021
ArgosAI Technology — *Ankara, Turkey*
- I trained a generative adversarial network with the images captured in one airport to generate images that can be used as training data for another airport. I utilized the "SPA-GAN: Spatial Attention GAN (Generative Adversarial Networks) for Image-to-Image Translation" architecture in my model.

Software Development Intern — June 2021 – July 2021
JotForm Inc. — *Ankara, Turkey*
- I worked with the React.js framework to get information from submitted forms and show the submission information on a web application.

Machine Learning Intern — July 2020 – August 2020
Bilkent University — *Ankara, Turkey*
- I implemented a deep learning model, which predicts COVID-19 negative and positive cases with 70% precision using lung CT scans. I worked under the supervision of Prof. Dr. Cigdem Gunduz-Demir.

Awards

SIGSOFT CAPS Award — September 2022
ACM
- Support to attend the ESEC/FSE'22 and PROMISE'22 conferences sponsored by ACM SIGSOFT.

Honor Student (*Cum Laude*)
Bilkent University
- I earned my B.Sc. in Computer Engineering degree with *Cum Laude* standing.

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 environmentally sustainable alternatives.

Airline Customer Satisfaction Predictor | *Technologies used: Python* February 2021 – May 2022

- Project for **EEE485, Statistical Learning and Data Analytics** course
- Implemented a system that predicts the customer satisfaction for given parameters like Gender, Customer Type, Age, etc.
- Used and compared ML Techniques: Principal Component Analysis, Naive Bayes, Neural Networks, Random Forests

Annexation Game | *Technologies used: Java, JavaFX* September 2020 – December 2020

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

Turna | *Technologies used: C* September 2020 – November 2020

- Project for **CS315, Programming Languages** course
- 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** course
- Allowed users to post their items and the tasks they can swap.

Skills and Abilities

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, LaTeX

Certificates

TOEFL iBT English Proficiency Test November 2021
ETS

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

German Language Proficiency Certificate May 2018
Federal Office of Administration

- Level: C1

Community & Extracurricular Activities

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 in my first year.

Volunteer February 2019 – June 2019
Bilkent Social Awareness Projects (TDP) *Ankara, Turkey*

- The Sun Rises from the Village Project (GUNKOY): 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.
- 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

Travelling: Visited USA, UK, Germany, France, Switzerland, Austria, Italy, Tanzania, Kyrgyzstan, Thailand, China, Hong Kong, Japan, Singapore, 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.