

# Unat Teksen

Istanbul, Turkey

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## Education

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### Kadir Has University

2018 – 2023 (expected)

*Bachelor of Science in Computer Engineering, Full Scholarship*

*Istanbul, Turkey*

GPA: 4.0/4.0

## Experience

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### Koç University

June 2022 – Present

*Research Intern*

*Istanbul, Turkey*

- Working at *Koç University Cryptography, Security, and Privacy Research Group* as an undergraduate researcher.
- Supervisors:** Assoc. Prof. Alptekin Küpçü, Asst. Prof. Ercüment Çiçek
- Working on implementation of novel defensive mechanisms against attacks in privacy-preserving machine learning systems. Specifically, working with split learning.
- Implemented anomaly detection models to detect and mitigate the impacts of a specific attack in a distributed and private deep learning model. Contributing as a co-author for a [paper](#) which is under peer-review.
- PyTorch, scikit-learn, NumPy, Pandas and, Matplotlib are used throughout the project.*

### ASELSAN

June 2022 – July 2022

*Software Engineering Intern*

*Ankara, Turkey*

- Worked at *Department of Avionics Software* which is responsible for designing and developing graphical user interface for aircraft.
- Developed an interface for unit test which is integrated with GUI of the specific aircraft. Developed for acknowledging aircraft's protocol commands.
- C/C# are used throughout the project.*

### Kadir Has University

Nov. 2021 – June 2022

*Research Intern*

*Istanbul, Turkey*

- Worked on dimension reduction methods and graph-based manifold learning algorithms for open-source Sca-ML project. “*Developing a New Method Based on Eigenvalue Distribution Slicing and Contour Integral for Manifold Learning and Analysis of Big Data*” project is supervised by Asst. Prof. E. Fatih Yetkin.
- Implemented PETSc/SLEPc libraries and functions for the solution of eigenvalue problems in dimension reduction methods: *PCA, SVD*.
- scikit-learn, NumPy, Pandas, SciPy, PETSc/SLEPc, Matplotlib and, Plotly are used throughout the project.*

### Argenova

June. 2021 – July 2021

*Software Engineering Intern*

*Kocaeli, Turkey*

- Developed a content management system for company's blog and project pages.
- PHP, JavaScript, jQuery, MySQL, and, CSS are used throughout the project.*

## Preprints

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- Ege Erdogan, **Unat Teksen**, M. Salih Celiktenyildiz, Alptekin Kupcu, A. Ercument Cicek. “**Defense Mechanisms Against Training-Hijacking Attacks in Split Learning**”, 2023; [arXiv:2302.08618](https://arxiv.org/abs/2302.08618).
  - This paper is **under peer-review** for a journal.

## Honor & Awards

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### Bachelor's Degree Scholarship

Sept. 2018–2023

- Merit-based scholarship for undergraduate education.

### Top Ranked Student in Engineering & Natural Sciences (7 Semesters)

Jan. 2023

- Highest ranked student among the students in faculty of Engineering & Natural Sciences for 7 semesters.

### TÜBİTAK Star Scholarship for Undergraduate Research Project

Dec. 2021–June 2022

- Selected by TÜBİTAK (Scientific and Technological Research Council of Turkey) and coordinators of the “Scalable Manifold Learning” research project as an undergraduate scholar for 6 months.

## Professional Activities

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### Subreviewer at ESORICS 2023

- Reviewing papers about ML and privacy for [European Symposium on Research in Computer Security 2023](#).

## Projects

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### Skin Lesion Classifier with CNNs | *PyTorch, scikit-learn, NumPy, Matplotlib, PIL*

- Github repository: <https://github.com/robuno/skin-disease-classifiers>

### Personal Blog Management System for Academics | *PHP, MySQL, JavaScript, Bootstrap, CSS*

- Github repository: <https://github.com/robuno/academics-blog-cms>

### Instagram Follower & Following List Scraper | *Python, Selenium, Web Driver Manager*

- Github repository: <https://github.com/robuno/instagram-follower-following-scraper>

## Certificates & Courses

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1) Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization | [Credential](#)

2) Neural Networks and Deep Learning | Issued by Coursera & DeepLearning.AI | [Credential](#)

3) CCNA: Introduction to Networks | Issued by Cisco | [Credential](#)

4) Machine Learning by Stanford University | Issued by Coursera & Stanford University | [Credential](#)

## Skills & Technical Strengths

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**Human Languages:** Turkish (*nature*), English (*fluent*), Italian (*elementary*)

**Programming Languages:** Python, Java, JavaScript, C/C#, PHP, Matlab, CSS

**Frameworks/Libraries**

**Machine Learning/Data Science:** PyTorch, scikit-learn, NumPy, Pandas, Matplotlib

**Web Development:** jQuery, React, Bootstrap

**Other Technologies/Databases:** MySQL, Tkinter, Swing

**Typesetting:** LaTeX

## Activities

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### Social Media Content Creator & Designer

*Kadir Has University Social Support & Solidarity Community*

- Designing and creating content specific to regular announcements and events for social media platforms. Volunteering in the organization of charity events.

*Updated on March 23, 2023*