# Unat Tekşen

Istanbul, Turkey

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## Education

**Kadir Has University**                                                                                     **2018 − 2023**
*Bachelor of Science in Computer Engineering*                                                          *Istanbul, Turkey*
**GPA: 4.0/4.0**

## Experience

**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 and federated learning.
- Implemented anomaly detection models to detect and mitigate the impacts of a specific attack in a distributed and private deep learning model.
- *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 ScaML 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. Emrullah 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.*

## Honor & Awards

**Bachelor's Degree Scholarship**                                                                    **Sept. 2018−2023**

- Merit-based scholarship for undergraduate education.

**Top Ranked Student in Engineering & Natural Sciences (7 Semesters)**                                    **Jan. 2022**

- 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.

## Projects

**Personal Blog Management System for Academics** | *PHP, MySQL, JavaScript, BootStrap, CSS*
- An easy-to-use content management system with modules to meet all the needs of academics and researchers.
  Github repository: [https://github.com/robuno/academics-blog-cms](https://github.com/robuno/academics-blog-cms)

**Instagram Follower & Following List Scraper** | *Python, Selenium, Web Driver Manager*
- Creates a list of followers and followings with the current time.
  Github repository: [https://github.com/robuno/instagram-follower-following-scraper](https://github.com/robuno/instagram-follower-following-scraper)

## Certificates & Courses

**Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization** | *Credential*
- Issued by DeepLearning.AI & Coursera

**Neural Networks and Deep Learning** | *Credential*
- Issued by DeepLearning.AI & Coursera

**CCNA: Introduction to Networks** | *Credential*
- Issued by Cisco

**Machine Learning by Stanford University** | *Credential*
- Andrew Ng's ML Course using Matlab, Octave

## Skills & Technical Strengths

**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

**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