

# BARAN YANCI

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Website ◊ LinkedIn ◊ GitHub

## EDUCATION

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**Middle East Technical University**, Ankara *Sep 2019 - Jan 2025*  
*Bachelor of Science (B.S.), Computer Engineering* *CGPA: 3.49*  
*Minor, Logic and Philosophy of Science* *CGPA: 3.17*

## EXPERIENCE

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**FileMap, Inc.**, San Francisco, CA *Jul 2022 - Present*  
*Software Engineer*  
Developing and optimizing UI components using *TypeScript* and *React.js*, enhancing canvas features with advanced graphics using *Three.js* and *OpenGL*.

**Purdue University**, West Lafayette, IN *Jun 2024 - Present*  
*Research Intern*  
Research in the field of cybersecurity, focused on *vector databases*, *Large Language Models (LLM)* and *Retrieval-Augmented Generation (RAG)* models.

**Middle East Technical University**, Ankara, Turkey *Sep 2023 - Jun 2024*  
*Textbook Content Contributor*  
Contribution to *Signals and Systems: Theory and Practical Explorations with Python*, written by Prof. Fatos Tunay Yarman Vural and Assoc. Prof. Emre Akbas.

**Sabanci University**, Istanbul, Turkey *Jul - Sep 2023*  
*Research Intern*  
Contribution to the bioinformatics research about computational DNA damage and repair, using *Hi-C*.

## PROJECTS

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**Multilayer Perceptron from Scratch** *Link*  
A fully functioning multilayer perceptron (MLP) from scratch without using libraries such as TensorFlow, NumPy, Pandas, or PyTorch; with a custom tensor library to handle all tensor operations.

**Scanning Bee** *Link*  
A free, cross-platform tool to annotate, scan, and visualize real-time images from beehives. The project achieved 2nd place in the METU Computer Engineering Graduation Project Competition 2024.



## SKILLS AND INTERESTS

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Deep Learning, Natural Language Processing (NLP), Vector Databases, Large Language Models (LLM), Bioinformatics, Software Engineering

## LANGUAGES

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 **English** - C1,  **Turkish** - C2,  **Persian** - C1

## EXTRA-CURRICULAR

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Activist of Amnesty International  
Trombone player in METU Jazz Orchestra  
Chairperson of the Board at METU Media Society (2021 - 2022)