



BARIŞ ÇAKMAK

✉ burbarnubaris@gmail.com  LinkedIn  GitHub

Education

Bogazici University

Sep. 2022 – Expected Jan. 2028

B.Sc. in Computer Engineering — GPA: 3.96/4.00

Istanbul, Turkey

- Minor in **Management**, started Sep. 2025, expected graduation Jan. 2028.
- Research Assistant at **ALLab**, developing deep learning models to analyze patient data and study improvement in Alzheimer's Disease.

TED Antalya College

Sep. 2018 – June 2022

High School Diploma — Ranked 52nd among 3+ million students in university entrance exam

Antalya, Turkey

Experience

2025 Spring Algorithm Program - inzva

Mar. 2025 – May 2025

Participated in an advanced algorithms bootcamp

Financial Platform Services Intern - Token Financial Technologies

Jul. 2025 – Aug. 2025

Made an AI chatbot assistant that helps businesses keep track of their Z reports.

Projects

Token Z Assistant | *Typescript, React Native*

Aug. 2025

- Developed a mobile chatbot application in React Native to help businesses track their Z reports.
- Customized LLMs for domain-specific tasks and integrated them with databases through APIs.
- Implemented interactive charts for Z report visualization and enabled export to spreadsheets for sharing.

Market Delivery System | *Java, StdDraw*

Apr. 2024

- Developed a route optimization solution for the Traveling Salesman Problem using brute force initially.
- Implemented the Ant Colony Optimization algorithm to significantly improve performance.
- Visualized the ant paths and pheromone trails using the StdDraw graphics library.

Turkey Map Simulation | *Java, StdDraw*

Apr. 2024

- Built a mapping tool that calculates the shortest route between any two cities in Turkey.
- Allowed dynamic city and connection configuration via external text files.
- Used Dijkstra's algorithm for pathfinding and optimized the solution using efficient data structures.

Truck Delivery Simulation | *Java*

Nov. 2024

- Designed a logistics system to manage truck routing and delivery efficiently.
- Used AVL trees and queues for fast data management and scheduling.
- Implemented a multi-AVL forest architecture to optimize route assignment across multiple centers.

Instagram Feed | *Java*

Nov. 2024

- Created an Instagram-style feed system with user-following and like interactions.
- Managed data using HashMaps, LinkedLists, and Priority Queues.
- Implemented a MaxHeap-based feed generator for user-specific content.

Witcher Tracker | *C*

Apr. 2025

- Built a command-parsing system in C for simulating game logic and player interactions.
- Implemented a generic HashMap with separate chaining for dynamic command routing.
- Focused on advanced pointer arithmetic and manual memory handling in C.

Technical Skills and Certifications

Languages: English (C1), Python, Java, Javascript, Typescript, React Native, C, C++, Verilog, Prolog, Assembly

Technical Skills: Data Structures (Lists, Trees, Heaps, HashMaps), Algorithms (Sorting, Graphs, Dijkstra, MST), Object-Oriented Design, Competitive Programming, Git

Deep Learning: VAEs, RNNs, LSTMs, CNNs, Neural Networks, Logistic Regression, Data Preprocessing

Certifications: Coursera – Machine Learning Specialization (by Andrew Ng)