Buğra Çetinkaya, Computer Engineer Student

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PROFILE

Motivated and resilient Computer Engineering student with a strong focus on systems programming and low-level development in C. Experienced in multithreaded application design, data structures, and Linux-based development. Creator of "Thread Runner", a task scheduler utilizing pthreads and synchronization techniques. Eager to apply practical skills, learn from real-world challenges, and contribute to impactful engineering projects.

EDUCATİON

Sep 2019 – Present   Middle East Technical University Northern Cyprus Campus

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SKILLS

C	Algorithims & Data Structures (İnked lists, stack, queue, tree)
Python	
Git&Github	Problem solving & debugging
VS Code	Time management under Pressure
OS Fundementals	Collaborative development & Clear documentation

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PROJECTS

1. Thread Runner – Multithreaded Task Manager

C,

Developed a CLI-based concurrent task scheduler using POSIX threads. Implements mutex locks and condition variables for thread-safe execution and real-time status tracking.

2. Face Recognizer (Basic Face Detection)

Python,

Created a simple face recognition system that detects and marks faces in real-time using Haar cascades and webcam input.

3. Mini Notepad (CLI Text Editor)

C,

Implemented a basic terminal-based text editor supporting read, write, and save functionalities. Handles buffer management and keyboard shortcuts.

4. Sorting Visualizer

C,

Built a command-line sorting visualizer to demonstrate sorting algorithms (Bubble, Insertion, Selection) step by step with ASCII-based progress display.

5. Stock Analyzer

Python,

Fetched stock data using APIs, performed basic statistical analysis, and visualized trends and indicators (SMA,volatility) on graphs.

6. MiniDBC

C,

Developed a basic key-value database system with custom binary file storage and CRUD operations through a CLI.

7. Brute Force Simulator

C,

Simulated password brute-forcing logic with character iteration and performance benchmarking. Used to demonstrate algorithm complexity and optimization techniques.

LANGUAGES

Turkish	Native Speaker
English	C1

HOBBIES

Theater & Performance Arts (Director in Animal Farm)
Creative Writing (influenced by Camus, Atay, Bukowski)
Middle Eastern & Experimental Music
Film Appreciation
Football, Basketball, Chess, Swimming
Cooking