Nasim Koohestani

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Education

Amirkabir University of Technology (AUT) — Tehran, Iran
B.Sc. Candidate in Computer Science — *Sept 2022 – Present*
Relevant Coursework: Computer Architecture, Operating Systems, Data Structures & Algorithms, Computer Networks, Distributed Systems, Software Development Practices

Projects

Peer-to-Peer Chat System with STUN Server | *Python, Flask, Redis, Socket Programming*

Developed a peer-to-peer chat application enabling real-time messaging and file transfers over TCP sockets.

Implemented a STUN server using Flask and Redis to handle peer discovery and NAT traversal.

Designed modular clients in server/client modes, managing direct connections and file exchange functionality.

github.com/Nacmkoohes/python-p2p-chat-stun

2048 Game | *Python*

Built CLI-based 2048 with tile merging, scoring system, and win/lose detection.

Practiced test-driven development and modular Python programming.

github.com/Nacmkoohes/2048-python

Student Portal System | *C*

Developed a multi-role portal (student/instructor/admin) with authentication and role-based access.

Implemented efficient file I/O and in-memory linked lists for persistence and fast lookup.

github.com/Nacmkoohes/Student-Portal-C

Python HTTP Server & Client | *Python, Socket Programming*

Developed a custom HTTP server from scratch using raw TCP sockets, capable of serving static files (HTML, text, images, PDFs).

Implemented MIME type detection, proper HTTP response headers (Content-Type, Content-Length), and error handling (404 Not Found).

Built a matching Python client to send HTTP GET requests and process server responses.

Strengthened understanding of TCP sockets, HTTP protocol internals, and client-server communication.

github.com/Nacmkoohes/python-webserver-client

Skills

Languages: C, C++, Python, Golang
Systems: TCP/IP, UDP, HTTP, Sockets, pcap
CS Concepts: Operating Systems, Distributed Systems, Scheduling, Synchronization
Tools: Git, VS Code, LaTeX, CMake
Problem Solving: Did many algorithmic problems on LeetCode and became fully familiar with advanced data structures and algorithms.
Teaching & Mentorship: Assisted peers in debugging, led DSA study sessions, guided juniors in Git workflows.

Experience

Amirkabir University of Technology — Tehran, Iran
Teaching Assistant, Data Structures (Instructor: Dr. Mahsa Saadat) — *Spring 2024*
Conducted tutorial sessions to reinforce core concepts in Data Structures and Algorithms.

Assisted students with debugging code, solving assignments, and improving algorithmic problem-solving.

ACHIEVEMENTS

Achieved an English proficiency score of 7.5 in ESTA, a standardized English test similar to TOEFL.

Recognized for high performance in core CS courses such as Operating Systems and Computer Networks.

Consistently among top performers in programming assignments and labs.

Selected for advanced projects in networking and systems programming.