Hisam Mehboob

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Profile

Computer Science student with hands-on experience in systems and embedded programming, aiming to build innovative, low-level tech solutions that bridge hardware and software.

EXPERIENCE

COLAB NU

Tier 1 Member

Peshawar, Khyber Pakhtunkhwa Oct 2024 - Present

- Hugo: Developed static websites using Hugo, leveraging its fast build times and Go-based architecture for efficient content management and templating.
- **Kernal Programming**: Created custom Linux kernel modules, focusing on low-level system optimization, device drivers, and hardware-software interaction for enhanced performance.
- Raspberry Pi 5: Engineered IoT and embedded systems solutions using Raspberry Pi 5, integrating GPIO, and hardware automation for custom projects.

PROJECTS

- Text Editor: Coded in C/C++ with no dependencies, and it implements all the basic features.
- POSIX Shell: Built a Portable Operating System Interface compliant shell in C langauge.
- Ray Tracing: Implemented a ray tracer from scratch using C++ gaining hands-on experience in rendering algorithms, 3D graphics, and computational geometry.
- Nand2Tetris: Built a modern computer system from the ground up, designing hardware components (from logic gates to CPU) and software layers (assembler, virtual machine, and compiler) to create a computer capable of running high-level programs.

COMMUNITIES WORK

IEEE FAST NUCES, Fast National University Peshawar

Mar. 2025 - Present

Junior Representative

• Work: Participated in IEEE-hosted campus events, workshops, and tech seminars to expand knowledge in cutting-edge engineering trends and network with industry peers.

EDUCATION

National University of Computer and Emerging Sciences

Aug. 2024 – Jun. 2028

Bachelor of Science in Computer Science; CGPA:3.50

• Coursework: Operating Systems, Parallel and Distributed Computing, Computer Organization and Assembly Language, Data Structures, Algorithms, Software Testing and Debugging.

SKILLS AND PARTICIPATIONS

- IT Support Skills: Troubleshooting, MS Office, Networking Basics, Documentation, Communication
- Languages: C, C++, Python, Javascript, Markdown
- Technologies: Hugo, LaTex, RPi 5, Qemu/KVM, Git, GitHub
- Participations: FAST Problem-Solving Challenge, Codeforces, NaScon