

## MOJEZ HASAN

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## OBJECTIVE

Highly motivated Computer Science student with a focus on Operating Systems, Python software development, and cybersecurity. Experienced in system-level programming with strong analytical and problem-solving skills. Eager to contribute to impactful software development initiatives and emerging technologies.

## EDUCATION

### **Bachelor of Technology in Computer Science & Engineering (Integrated M.Tech)**

Noida Institute of Engineering and Technology (NIET), Greater Noida, UP  
*August 2024 – Present*

- **Current CGPA:** 8.25/10
- **Relevant Coursework:** Data Structures, Object-Oriented Programming, Operating Systems, Hardware Description Language

## TECHNICAL SKILLS

**Programming Languages:** Python, C, C++, Zig, HTML/CSS, Bash

**Development Tools:** Git, GitHub, VS Code, QEMU, GRUB, Linux Terminal, Make, Computer-Aided Design (CAD)

**Operating Systems:** Linux (Ubuntu), Windows

**Technical Concepts:** Software Development, Operating Systems, Embedded Systems, Computer Architecture, Problem Solving, Version Control, Debugging, Unit Testing

**Specializations:** OS Development, Cybersecurity, AI Tools, Automation

**Languages:** English (Fluent), Hindi (Native), Urdu (Fluent), Arabic (Basic)

## PROJECTS

### **ZironOS – Custom Feature Phone Operating System**

*Technologies: Zig, x86 Assembly, QEMU, GRUB*

[GitHub Repository](#)

- Built a lightweight, multiboot-compliant OS kernel from scratch using Zig and x86 assembly.
- Implemented VGA text-mode rendering, custom command-line interface, and interrupt-driven keyboard input.
- Developed boot animation with Unicode-aware terminal output, version tagging, and optimized delay logic.
- Integrated Interrupt Descriptor Table (IDT) and custom ISRs to manage system interrupts.
- Added serial logging, command parsing, and automated ISO build system via Makefile.
- Debugged and improved kernel boot time for efficient startup across QEMU and real hardware.
- Future Scope: FAT32 filesystem, cooperative multitasking, shell interface, UI.

### **J.A.R.V.I.S – Python Voice Assistant for Linux**

*Technologies: Python, SpeechRecognition, Wikipedia API, REST APIs*

[GitHub Repository](#)

- Created a modular, smart voice assistant processing 95%+ of commands accurately on Linux.
- Supported 20+ voice-based tasks: app launching, search, playback, utilities, and Wikipedia lookup.
- Integrated REST APIs for real-time data (weather, news, definitions) and voice-based control.

- Applied unit testing and modular design for extensibility and future integration of NLP features.
- Featured authentication, boot sounds, and robust subprocess-based automation.

## CONTENT CREATION & MARKETING EXPERIENCE

**Managing Director & Inventory Manager @SheenShawls** a family buisness of antique shawls.

### **Digital Outreach & Content Intern (Remote)**

*PixAIbay – I Educate Myself Daily Foundation*

*Jul 2025 – Aug 2025 (expected)*

- Promoted AI-generated stock image platform among creative and design communities.
- Managed Instagram, LinkedIn, and Twitter outreach using engaging reels, carousels, and updates.
- Created and shared content showcasing image use cases, tutorials, and community contributions.
- Collected user feedback to improve platform UX and analytics reporting.
- Participated in campaign ideation and virtual promotional events.
- Contributed to personalized referral campaign design and marketing.

## CERTIFICATIONS

### **Cybersecurity Virtual Job Simulation** – Deloitte Australia via Forage

- Practiced vulnerability scanning, incident detection, and API analysis through real-world scenarios.
- Simulated professional cybersecurity reporting and investigation workflows.

**Programming in C** – *Infosys Springboard* — Completed April 2025

- Successfully completed a foundational course in C programming, covering core concepts such as memory management, control structures, and efficient algorithm design.
- Certificate issued by Infosys Limited and signed by Executive Vice President Thirumala Arohi.

### **iOS Development for Beginners: Master Swift & App Building iOS**

**Development for Beginners: Master Swift & App Building** *GeeksforGeeks* —  
*Completed April 2025*

- *Completed a 4-week beginner-focused course covering core Swift syntax, user interface design, and fundamental iOS app development concepts.*
- *Certificate awarded by GeeksforGeeks and signed by Founder & CEO, Mr. Sandeep Jain.*

## **ACHIEVEMENTS & ACADEMIC HIGHLIGHTS**

- Maintained a CGPA of 8.25/10 in B.Tech (Integrated M.Tech)
- Completed coursework in core CS domains including OS, Data Structures, and OOP
- Self-learned Zig, x86 Assembly, and kernel development fundamentals
- Selected for Deloitte's Cybersecurity Virtual Job Simulation Program

## **ADDITIONAL STRENGTHS**

- Strong inclination towards merging AI with low-level system development
- Contributor to open-source Linux and embedded projects
- Experienced with OS internals, shell design, and command parsing
- Active learner with research interest in reverse engineering and kernel security

## INTERESTS

Operating Systems · Cybersecurity · Embedded Systems · AI Assistants · Reverse Engineering · Embedded Devices · DevOps