

# HAMZA JEELANI

Computer Science Engineering Student · Security & Full-Stack · Embedded Systems

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## SUMMARY

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Computer Science Engineering undergraduate with hands-on depth across three areas most engineers keep separate: offensive security and tooling, full-stack web development, and embedded/hardware systems. Comfortable owning a project end to end — from firmware and PCB design through to the backend, network layer, and a secured interface. Self-directed, Linux-native, and a continuous builder. Raised in Saudi Arabia with Arabic familiarity; open to roles across security, embedded/IoT, and software engineering.

## EDUCATION

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### Osmania University

B.E. Computer Science Engineering

Hyderabad, India

Expected 2027

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, C / C++ (embedded), Bash, HTML, CSS, SQL

**Web & Backend:** React, Node.js, Django, MySQL, REST APIs

**Security:** Burp Suite, Nmap, Wireshark, Metasploit, SQLmap, Gobuster, Hydra, John the Ripper, Nikto; web app exploitation (OWASP), Active Directory enumeration, OSINT, recon automation

**Networking:** TCP/IP, network traffic analysis, protocol reversing, packet inspection, network reconnaissance

**Embedded & Hardware:** Arduino, ESP32, microcontroller firmware, servo / motor control, sensor integration, PCB design & schematic capture (KiCad)

**Mechanical / CAD:** Fusion 360, Onshape, 3D modelling & printing

**Environment & Tools:** Linux (Arch, Kali), Git, Neovim, VS Code

## PROJECTS

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### Auto-Aiming Turret — *Computer Vision · Embedded Firmware · Servo Control · 3D-Printed Mechanics*

- Built an automatic target-tracking turret integrating real-time computer-vision detection with closed-loop servo aiming.
- Designed and 3D-printed the pan/tilt mechanism and ran the control firmware on a microcontroller — full mechanical, electronic, and software integration.

### Steganography Tool — *Python · Cryptography*

- LSB image steganography tool to embed and extract hidden data inside images, with an encryption layer for the payload.

### Password Manager — *Python · AES-256*

- Local-first credential manager using AES-256 encryption, with no cloud dependency to minimise the attack surface.

### ClerkView — *Web Application*

- Clinical case-log web app letting medical students document and track patient cases through training.

### Spotify Playlist Downloader — *Python · Spotify API*

- Bulk-downloads full playlists with metadata, cover art, and multi-format audio output via the Spotify API.

### Salafi Maktab — *React · Vercel*

- Digital library web app organising books, scholars, and audio resources with a clean, searchable interface.

## AREAS OF FOCUS & INTERESTS

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- **Security research:** web application exploitation, Active Directory enumeration & lateral movement, network/protocol analysis, recon-pipeline automation, CTFs.
- **Embedded & robotics:** microcontroller systems, IoT, sensor fusion and motion control; building toward custom PCB + wireless telemetry projects.
- **Aerospace:** model and high-power rocketry, thrust-vector control (TVC) and solid motors, with a planned avionics + secured ground-station project.