

# MANGLAM JAISWAL

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## OBJECTIVE

Third-year B.E. Electronics & Computer Science student (Honors in Cybersecurity) at Fr. Conceicao Rodrigues College of Engineering with skills in full-stack development, cybersecurity, and the Internet of Things (IoT). IoT Lead at Project Cell, leading real-world tech projects. Internship experience at Apraava Energy with strong problem solving, collaboration, and industry exposure.

## EDUCATION

<b>Bachelor of Engineering in Electronics and Computer Science</b>	Expected 2027
Fr. CRCE, Mumbai University	Recent CGPA: 9.15 / 10
<b>Honors in Cybersecurity</b> , Fr. CRCE, Mumbai University	Expected 2027
<b>Higher Secondary Certificate (HSC)</b> , St. Michael's Convent School	2021 - 2023
<b>Secondary School Certificate (SSC)</b> , Fatima School	2009 - 2021

## SKILLS

<b>Programming Languages</b>	Java, Python, Embedded C, JavaScript, HTML, CSS, SQL
<b>Cybersecurity</b>	Ethical Hacking, Cryptography
<b>IoT &amp; Hardware</b>	Arduino IDE, Arduino Uno, ESP32, ESP32-CAM
<b>Databases</b>	Firebase, MongoDB, PostgreSQL,
<b>Frameworks &amp; Libraries</b>	Django, Java AWT ,Java Swing
<b>Tools &amp; Technologies</b>	Git/Github, OpenCV, Canva, Excel, Keil uVision
<b>Operating Systems</b>	Linux, Windows

## EXPERIENCE

<b>IoT Lead</b>	June 2025 - Present
Project Cell CRCE	<i>Fr. Conceicao Rodrigues College of Engineering, Mumbai</i>
• Leading IoT initiatives and technical projects within the college's council project cell	
• Mentoring junior students in IoT development and hardware programming	
• Coordinating between different technical teams for project execution	
<b>Intern</b>	Jan 2025 - July 2025
Apraava Energy	<i>Rajkot, Gujarat</i>
• Assisted in the AMI (Advanced Metering Infrastructure) project, working on WFM, HES, and MDM platforms for data validation, data entry, and inventory management	
• Gained end-to-end exposure to smart meter data flow through lab testing, field operations, and network management	
• Learned and applied corporate workflows and operational practices in the energy sector	

## PROJECTS

### FixLit – Smart Lighting Control System [Github](#)

- Desktop app to check password strength, detect breach exposure, and generate secure passwords and password management
- Chrome extension for auto-saving and auto-filling login credentials
- Enhances user security and convenience by securely managing authentication data

## **GhostESP — Wireless Security Testing Firmware**

- Converts ESP32 into a wireless analysis and testing platform for Wi-Fi and BLE scanning
- Performs packet monitoring, signal mapping, and controlled vulnerability testing
- Designed for ethical security research and network hardening

## **ESP Monitor — WiFi Security Monitor [Github](#)**

- Real-time Wi-Fi security tool detecting deauthentication attacks and beacon spam
- Analyzes channel activity with live graphs on a 1.47" LCD and RGB LED indicators
- Uses ESP32-C6, ST7789 LCD (172x320), and WS2812 RGB LED hardware

## **Alcohol Detection and Accident Prevention System [Github](#)**

- Built safety system with automated motor shutdown on alcohol detection
- Integrated Firebase for data logging and automated email alert system
- Demonstrated practical application of IoT in automotive safety

## **Voice-Controlled Lighting Automation [Github](#)**

- Automated project room lighting system with voice command integration
- Developed mobile app interface for manual control backup
- Combined IoT with voice recognition technology

## **CERTIFICATIONS**

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Google Cloud Cybersecurity Certificate [View Credential](#)

AWS Academy Graduate - Cloud Architecting [View Badge](#)

Cryptography: A Hands-On Approach [Certificate](#)

Tata Cybersecurity Analyst Job Simulation [Certificate](#)

Deloitte Cyber Job Simulation [Certificate](#)

## **ACHIEVEMENTS**

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- Secured #48 rank out of 1700 participants in Hacker's Gambit – OWASP National Level CTF, demonstrating advanced cybersecurity problem-solving and competitive skills.
- Finalist in Breach Bytes 3.0, a CTF competition of DJ Sanghvi College of Engineering.