

# Krishna Abhinav Nelanuthala

Hatfield, United Kingdom

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in krishnaabhinavnelanuthala

## Profile

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I am a highly motivated and results-driven Cybersecurity Specialist dedicated to bridging the gap between cutting-edge research and real-world security operations. I hold an **MSc in Cybersecurity with Distinction** from the University of Hertfordshire, and currently serve as a **Cybersecurity Subject Matter Expert at PraNaga Solutions**. My expertise includes Digital Forensics, security automation (Python), risk assessment, and technical communication. I balance my technical focus with creative pursuits: playing piano, story writing, art, and design.

## Experience

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### PraNaga Solutions

[Hyderabad, India]

*Cybersecurity Subject Matter Expert (SME)*

*Nov 2025 – Present*

- Leading initiatives for security architecture, governance, and risk mitigation strategies across enterprise solutions.
- Acting as a key technical resource, translating complex security requirements into actionable plans for development teams.

### Leonardo Hotel

Watford

*Night Receptionist*

*Dec 2024 – Present*

- Managed high-responsibility, late-night operations and guest safety, leveraging attention to detail and rapid problem-solving.
- Executed check-in/out, managed night audits, and performed scheduled security checks, ensuring guest safety and adherence to operational standards.

## Key Projects & Research

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### MSc Research Project

*Digital Evidence Recovery from Discord* Developed a scalable forensic framework for the recovery and validation of digital evidence from Discord, addressing data volatility and tampering challenges to ensure evidence integrity and authenticity.

- Designed and deployed a custom **Python-based bot (FRIDAY)** using discord.py to capture real-time events including message creation, edits, and deletions.
- Implemented secure data storage using an **SQLite database** for reliable forensic logging.
- Applied cryptographic verification using **SHA-1 hashing**, achieving a verified **100% hash match** during cross-validation.
- Successfully demonstrated accurate event capture within a controlled single-user test environment.
- Ensured **GDPR compliance and ethical standards** by restricting testing to one user and one bot.

**Academic Project**

**FPT.AI Text-to-Speech Conversion Analysis** Presented a development framework for processing text to generate dynamic male and female Vietnamese voice outputs.

- Developed a pipeline for converting textual input into dynamic voice output.
- Analysed performance across different voice profiles and speech conditions.
- Demonstrated application usability for users with communication difficulties in professional and entertainment environments.

**Final Year Project**

**CoDetect Financial Fraud Detection System** Proposed a graph-based fraud detection framework for identifying and classifying fraudulent online financial transactions.

- Designed a graph similarity and feature matrix-based model for transaction analysis.
- Implemented fraud detection using similarity and feature tensors.
- Enabled classification of multiple fraud types in online transaction systems.

**Education**

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**University of Hertfordshire**

**Hatfield, UK**

*MSc Cybersecurity with Advanced Research, Distinction*

2023 – 2025

- Key Modules: Digital Forensics, Penetration Testing, Risk Management.
- Thesis: Comprehensive Forensic Framework for Digital Evidence Recovery from Discord.

**St. Mary’s Engineering College**

**Hyderabad, India**

*B.Tech. in Computer Science*

2018 – 2022

- Developed a strong foundational knowledge in algorithms, data structures, and core programming principles.

**Skills and Expertise**

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**Cybersecurity Expertise**

- Penetration Testing
- Ethical Hacking
- Vulnerability Analysis
- Security Audits
- Incident Response
- Network Security
- Web Application Security
- SIEM Principles
- Risk Assessment
- Evidence Handling & Chain of Custody
- File Hashing & Integrity Verification (SHA-1)
- Volatile Data Acquisition
- Digital Evidence Authentication

**Technical Proficiencies . .**

- Linux (CLI, Administration)
- Autopsy, FTK, EnCase
- Network Analysis (Wireshark, Ettercap)
- Security Tools (Nmap, Burp Suite, Metasploit, sqlmap)
- Python Scripting
- Java, SQL
- Web Development Fundamentals
- Digital Forensics
- Cache Analysis (Discord)
- SQLite Database Design

**Essential Soft Skills.....**

- Analytical & Problem-Solving
- Written & Verbal Communication
- Team Collaboration
- Risk Management
- Decision Making
- Critical Thinking
- Attention to Detail
- Adaptability
- Time Management

## Languages

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**English:** Fluent

**Telugu:** Mother tongue

**Hindi:** Conversational