

# Karthik S Sathyan

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## EDUCATION

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### Srinivas University

BCA (Cloud Computing, Ethical Hacking, Cybersecurity)

CGPA: 7.80

Mangalore, Karnataka

Expected Graduation, April 2025

## PROFILE SUMMARY

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Ethical Hacker and Cybersecurity Expert with a solid foundation in hacking, networking, cloud computing, and programming, targeting roles that offer growth and impactful contributions in cybersecurity.

- Expertise in **bug bounty hunting**, **web penetration testing**, and secure code development.
- Currently pursuing a **BCA** at **Srinivas University**, actively enhancing skills through online courses, workshops, and a cybersecurity research project.
- Committed to **staying updated** with the **latest industry** trends and technologies, continuously enhancing skills to provide innovative solutions

## PROJECTS

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### Two-Factor Authentication (2FA) Implementation

Tools: Python (Flask, pyotp, qrcode), HTML, CSS

August 2024 – Current

Developed a robust 2FA system using Flask with TOTP and QR code integration for enhanced security.

#### Responsibilities:

- **Designed and developed** the application architecture, implementing a secure 2FA mechanism.
- **Structured and styled** web pages using HTML and CSS for a user-friendly interface.
- **Implemented dynamic features** with Flask to handle user registration, login, and OTP verification.
- **Generated QR codes** for easy 2FA setup, allowing users to scan and obtain OTPs.
- **Tested the 2FA implementation** extensively to ensure robust security and user experience

### Password Manager Development

Tools: Python (hashlib, getpass, pickle)

July 2024 – August 2024

Developed a secure password manager with account creation, login functionality, and data persistence.

#### Responsibilities:

- **Secure Account Creation:** Implemented account setup with SHA-256 password hashing
- **Login Mechanism:** Developed a secure system for user authentication.
- **Functionality Testing:** Ensured robust and secure operation through extensive testing.
- **Data Persistence:** Managed user data storage and retrieval using pickle, ensuring data integrity and consistency across sessions.

## ACADEMIC ACHIEVEMENTS

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- Earned multiple certifications in cybersecurity, including **CompTIA Cybersecurity Analyst+** series and various Udemy courses, demonstrating expertise in areas such as bug bounty hunting, digital forensics, and ethical hacking.
- Completed specialized training in cybersecurity methodologies, vulnerability research, and OSINT, reflecting a comprehensive understanding of modern security practices and threat mitigation.

## SKILLS

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**Programming:** Java, Python, C, C++, HTML/CSS, JavaScript, MySQL, PHP

**Tools and OS:** BurpSuite, Nmap, VS Code, Kali Linux(OS), Metasploitable 2(OS), Linux(OS)