

# Vishal Purushotham

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## EDUCATION

### Ramaiah Institute of Technology

Aug, 2026

*Bachelor of Engineering, Computer Science and Engineering (Cyber Security)*

*Bengaluru, Karnataka*

- CGPA:- 8.95/10.00
- Courses:- Data Structures & Algorithms, Operating Systems, Data Communication & Networking, Database Management Systems, Cryptography & Network Security, Computer Organization & Architecture

## WORK EXPERIENCE

### Unisys

Nov, 2024 – Present

*Research Intern, Internship*

*Bengaluru, Karnataka*

- Contributing to research in AI/ML, developing innovative solutions and algorithms for complex challenges

### SecuRIT

Jan, 2024 – Present

*Core Member, Full-Time*

*Bengaluru, Karnataka*

- Organized cybersecurity training sessions, CTF's, ideathons and fostered community engagement through knowledge-sharing initiatives.

## SKILLS

- **Programming Languages:** C/C++ (intermediate), Python (moderate), JavaScript (moderate)
- **Algorithms & Data Structures:** LeetCode, Dynamic Programming, Graph Algorithms, Sorting and Searching Algorithms, Hashing, Data Structures (Arrays, Linked Lists, Trees, Stacks, Queues)
- **Cloud:** Azure, Git, SQL, React, AWS
- **Database:** MySQL, MongoDB, PostgreSQL

## PROJECTS

### NeuroSync Care – Early Detection of Parkinson's Disease (Flutter, Flask, Scikit-learn)

- Developed cross-platform app using Flutter for early Parkinson's detection, integrating voice and gait analysis with ~85% accuracy
- Implemented Flask-based REST APIs for model inference and data processing; Won 3rd place in 'wHACKiest '24 MSRIT' hackathon

### Serverless Data Backup Pipeline (AWS Lambda, CloudWatch Events, Boto3, EC2, S3, IAM, SSM)

- Built a serverless data backup pipeline with AWS Lambda and CloudWatch Events to automatically back up EC2 files to S3, ensuring data durability and disaster recovery.
- Developed a Python Lambda function using Boto3 for EC2-SSM and S3 interactions, enforcing secure remote access and least-privilege IAM roles to eliminate SSH access.

### Code Obfuscator and Deobfuscator (Python, Flask)

- Developed a Python-based tool to obfuscate and deobfuscate C source code, utilizing techniques such as renaming variables, control flow modification, and code redundancy insertion to protect intellectual property.
- Implemented a Flask web interface for easy user interaction, enabling code upload, obfuscation, and deobfuscation through a clean, responsive frontend.

## CERTIFICATIONS, INTERESTS

- **Certifications:** Meta Front-End Developer Professional Certificate, Microsoft Azure AI Fundamentals
- **Interests:** Gym, Cybersecurity, Travelling, Gardening, Cooking, Reading