Neil Anthony
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GitHub: https://github.com/neil24-c

Career Objective

Passionate and driven Computer Science and Engineering student from VTU with hands-on project experience in IoT, AI, and Computer Vision. Eager to apply practical knowledge in real-world challenges.

Education

B.E. in Computer Science and Engineering
Cambridge Institute of Technology, Bengaluru
Apr 2026 (Expected)

Pre-University – PCMB
St. Joseph's PU College, Bengaluru
May 2022

Technical Skills

- Programming: Python, C, HTML, CSS
- Tools & Libraries: OpenCV, YOLOv5, NumPy, MySQL. Qiskit, IBM Quantum
- Hardware: Raspberry Pi, ESP32, Sensors (PIR, DHT11, Gas)
- Others: Git, PowerPoint, Public Speaking, Event Management

Projects

1. Cybersecurity Risk Assessment in Healthcare Networks
Designed a predictive ML model to assess cyber risks across healthcare systems (doctor PCs, patient monitors, EMR servers). Built XGBoost and Random Forest models with feature extraction and selection from healthcare logs. Integrated a full-stack app with user authentication, attack-type identification, and risk-level prediction.
Tech: Python (Flask), XGBoost, Random Forest, HTML/CSS (frontend), SQLite, Pandas, Scikit-learn

2. Real-Time Traffic simulation using IoT and Quantum Computing
Designed a miniature traffic management system where IoT devices (Raspberry Pi + camera) detect and count vehicles in real time. Integrated Qiskit-based quantum optimization to dynamically allocate green signal time, simulating smart traffic flow on a small-scale prototype.
Tech: Python, OpenCV, Raspberry Pi, Qiskit, IBM Quantum, IoT Sensors/Camera

3. Smart Doorbell System using IoT
Built a smart doorbell using Raspberry Pi and ESP32-CAM to capture real-time images and notify users remotely via Wi-Fi. Integrated Python scripts to manage sensor input and camera feed.
Tech: Python, Arduino IDE, ESP32, Wi-Fi, Raspberry Pi

4. YOLOv5 Affine Detection System
Developed an advanced object detection system using YOLOv5 with affine transformation. Enabled rotation, scaling, and distortion handling in object tracking for smart surveillance and IoT edge deployment.
Tech: Python, YOLOv5, OpenCV, TensorFlow, LabelImg

Internship Experience

Data Analyst Intern
Archdiocese Communication Centre, Bengaluru
Jun 2023 – Nov 2023
- Built and maintained data logs for all service users. - Extracted and analyzed community usage patterns.

Center Trainer (Volunteer)
U&I NGO, Bengaluru
Aug 2024 – Present
- Mentored underprivileged children in life skills and spoken English. - Led large sessions to improve community outreach.

Certifications & Achievements

- **IIT Bombay E-Summit 2023** – Participated in the E-summit
- **Ideathon 2023** – 2nd Best Young Entrepreneur Award
- **TEDxCIT Event Manager**, Bengaluru
- Winner – **Modern United Nations (MUN) 2022**
- Hackathon participant and winner in multiple intercollegiate events
- State representation in Football, Athletics, and Basketball

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Leadership & Activities

- Captain, College Football Team
- Student Council Member & Cultural Head (2021)
- NCC Cadet (2021–2022)
- Organized State-Level Football Tournament with 1000+ participants

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