

JANUL INDUWARA

Software Engineering Undergraduate

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• [GitHub](#) • [LinkedIn](#) • [Portfolio](#)

PROFESSIONAL SUMMARY

Software Engineering undergraduate at IIT (University of Westminster) with hands-on experience building ML-powered systems, full-stack web applications, and cybersecurity platforms. Proven ability to deliver production-ready solutions from a 92% accuracy ANPR system to real-time phishing detection working both independently and in cross-functional teams.

TECHNICAL SKILLS

Languages	Python, Java, JavaScript, PHP
Frameworks	FastAPI, Spring Boot, Laravel, React (Vite), OpenCV
ML / AI	YOLOv8, PaddleOCR, LightGBM, Scikit-learn
Web & UI	HTML5, CSS3, Tailwind CSS, Leaflet.js, REST APIs
Databases	MySQL, Redis
Tools	Git, GitHub, Postman, VS Code, Linux, ESP32

PROJECTS

Ez-Toll Smart Gate System | ML Engineer

Project link - <https://github.com/janul2006/Ez-Toll-SDGP>

Nov 2025 – Present

Tech: Python, OpenCV, YOLOv8, PaddleOCR, ESP32, REST API, Git

- **Built end-to-end ANPR pipeline** plate detection (YOLOv8), preprocessing, OCR (PaddleOCR), and gate-trigger logic as the sole ML engineer.
- **Achieved 92% accuracy & F1-score of 0.92** through adaptive thresholding, perspective correction, and noise-reduction preprocessing.
- **Designed ESP32-to-backend streaming** via REST APIs, cutting frame-to-decision latency by removing intermediate storage overhead.
- **Resolved API bottleneck** causing ~15% request timeouts under peak load, bringing dropouts to near-zero.

Smart Incident Reporting System | Full-Stack Developer

Project link - <https://github.com/janul2006/smart-incident-system>

Nov 2025 – Present

Tech: React (Vite), Spring Boot, MySQL, Leaflet, Tailwind CSS, REST APIs

- **Owned full frontend** architecture, routing, state, and UI built with React (Vite) and Tailwind CSS.
- **Implemented dual geolocation** (auto browser + manual pin-drop) with reverse geocoding, eliminating free-text address errors.
- **Built Spring Boot microservices** with JPA for CRUD, pagination, and role-based access on MySQL.
- **Delivered analytics dashboard** with time-series charts and geographic heatmap for identifying high-risk zones.

AI-Powered Phishing Detection System | ML & Backend Engineer

Project link - <https://github.com/janul2006/phishing-detection-system>

Nov 2025 – Present

Tech: Laravel (PHP), FastAPI (Python), React (Vite), Redis, LightGBM, REST APIs

- **Architected microservices platform** ML inference (FastAPI + LightGBM), app backend (Laravel), frontend (React) with independent scalability.
- **Built real-time URL classifier** with LightGBM via FastAPI, enabling production-grade phishing detection.
- **Engineered Redis caching layer** on Laravel backend, eliminating redundant ML calls for repeat URL lookups.
- **Standardized cross-service API contracts** with versioned JSON schemas for reliable inter-service communication.

EXPERIENCE

Field Operation Supporting Officer (Volunteer) | World Health Survey Plus

07/2025 – 11/2025

WHO & University of Colombo

Sri Lanka

- **Streamlined departmental workflows** by implementing standardized policies, improving team operational efficiency.
- **Coordinated cross-functional teams** to resolve complex field issues, accelerating problem-solving response times.
- **Collaborated** with emergency service groups to synchronize field operations across multiple units.

EDUCATION

BEng (Hons) Software Engineering

University of Westminster, UK

Expected 04/2028

Foundation Certificate in Higher Education (IT)

Informatics Institute of Technology (IIT), Sri Lanka

05/2024

G.C.E. Ordinary Level Examination

Sri Sumangala Boys' College, Panadura

09/2023

SOFT SKILLS

- | | |
|---------------------------|----------------------------|
| • Effective Communication | • Teamwork & Collaboration |
| • Critical Thinking | • Time Management |

REFEREES

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