

# Induwara Thenuka Kannangara

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📍 Gampaha, Sri Lanka



## Professional Summary

Software Engineering undergraduate and **full-stack developer** specializing in **Next.js**, with hands-on experience in building production-grade systems, **AI automation agents**, and **machine learning solutions**. Skilled in developing scalable cloud applications, implementing ML models for real world problems such as fraud detection, and integrating intelligent systems into user-facing products. Passionate about leveraging AI and software engineering to build impactful, data-driven solutions.

## Education

### BSc (Hons) in Computing (Software Engineering)

Offered by Coventry University UK

2023 – Present | NIBM Colombo

### Diploma in Software Engineering

NIBM - Colombo (GPA: 3.6 / 4.0)

2022 – 2023 | NIBM Colombo

## Certifications

### Apache Airflow 3 Fundamentals

Certification Exam - Astronomer Academy

### Google UX Design Certificate

Coursera

### Meta Front-End Developer Professional Certificate

Coursera

### AWS Cloud Technical Essentials

Coursera

### AI/ML Engineer - Stage 1

SLIIT - Open and Distance EDU

## Technical Skills

### Frontend

- React.js, Next.js, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS

### Databases

- MongoDB, MySQL, SQL

### AI/ML & Automation

- Google Gemini API, Langflow, n8n, Flowise,
- Python (Pandas, NumPy, Scikit-learn) TensorFlow
- PyTorch Machine Learning (Classification, Model Evaluation, Feature Engineering),

### Backend

- Node.js, Java (Spring Boot), C# (.NET)

### DevOps / Cloud

- Vercel, Redis, Git, GitHub, Firebase Auth

### Scripting

- Python, Bash

## Freelance Projects

### ◆ Snapseat.lk - Full-Stack Event Ticketing Platform

Next.js, Node.js, MongoDB, Redis

Production-grade, serverless ticketing solution with AI chatbot integration.

- Optimized Performance : Redis caching, client-rendered UI with shimmer effects.
- Security First : Content Security Policy (CSP), server-side validation, API rate limiting.
- Payment Integration : Integrated PayHere payment gateway with atomic webhook processing.
- AI Chatbot : Real-time assistance via Google Gemini API for automated support.

#### ◆ **Event Access Control System – Hybrid Online/Offline**

*Next.js, Node.js, PostgreSQL, Local Cache(IndexDB), C#, SQLite, Arduino*

- Developed a access control system with **C#/.NET agents** featuring a hybrid online/offline architecture (PostgreSQL & SQLite) for operation in low-connectivity environments.
- Real-time web dashboard for live monitoring of attendee flow and scanner status.
- Integrated **Arduino hardware** for automated gate control and physical status indicators.

#### ◆ **Client Websites**

Modern cleaning service website with optimized UI and responsive layout.

- **freshcokleen.com.au** [↗](#)
- **cleanandshine.co.nz** [↗](#)
- **servicestationfacilities.com.au** [↗](#)

## Portfolio Projects

### **AI WhatsApp Chat Agent for Business Automation**

*Twilio WhatsApp API, GPT-4o, n8n, Google Sheets*

- Developed a WhatsApp AI agent to automate customer support and appointment booking.
- Collected user data and logged it to Google Sheets via n8n workflows.
- Answered FAQs using a GPT-4o-powered knowledge base (PDFs, web links).
- Implemented state-based prompts for structured, context-aware replies.
- Included fallback to human agents for complex queries.

### **AI Workout & Meal Plan Generator**

*React.js, Tailwind CSS, Google Gemini API*

- Personalized fitness and meal plan recommendations.

### **Restaurant Management System**

*Java (Spring Boot), React.js*

- Full-stack system with order, menu, and user management.

### **Inventory Management System**

*C# (.NET), Google OAuth 2.0*

- Secure desktop app with Google login, PDF generation, and OTP.

### **Credit Card Fraud Detection (IEEE-CIS Dataset)**

*Python, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib*

- Performed data preprocessing, feature engineering, and handling of class imbalance. (Logistic Regression, Random Forest, Neural Networks).
- Optimized model performance using **Precision, Recall, F1-score** (fraud-focused metrics).
- Implemented ROC curve analysis and threshold tuning for real-world fraud scenarios.
- Achieved high recall to minimize false negatives in fraud detection.

## Extracurricular Activities

### **Member of Robotics Club**

### **Former Player, Badminton & Cricket Teams (U13, U15, U17)**