HASINTHAKA PIYUMAL

Software Engineering Undergraduate

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SUMMARY

Aspiring Machine Learning Engineer and Software Engineering undergraduate with hands-on experience in building ML-integrated applications using Python, React, and NestJS. Strong foundation in data analysis, algorithm development, and full-stack development. Passionate about solving real-world problems using AI/ML and contributing to impactful projects.

SKILLS

Languages	: Python, JavaScript, TypeScript, Dart, Java, Kotlin, SQL
Frameworks	: TensorFlow, Scikit-learn, React.js, Flutter, Flask, Node.js, Next.js, Springboot
Tools	: Git, Docker, Prisma, Postman, Firebase, MongoDB
Concepts	: Machine Learning, Data Preprocessing, Model Evaluation, API Development
Soft Skills	: Problem Solving, Critical Thinking, Team Collaboration, Time Management

EDUCATION

B.Sc.(Hons.) Software Engineering   **July 2023 - Present**

University of Kelaniya

- CGPA: 3.1280/4.0
- Specializing in Net-Centric Applications, Data Science, Mobile Applications, and Game Development.

G.C.E. Advanced Level   **July 2019 - February 2022**

Walisinghe Harischandra College, Anuradhapura

- Z-Score: 1.6978

TOP PROJECTS

Fitness Application   **June 2023 - December 2024**

(Freelance)

Built and published a cross-platform fitness app using Flutter for a foreign gym network. Features included virtual dietary consultations, in-app live trainer sessions, workout tracking, fitness reports, audio calling, health data and smartwatch integration, and bookings for physiotherapy and medical consultations.

- Keywords: Real-time messaging, health data sync, subscription plans
- Technologies: Flutter, API Integration, ZegoCloud, Firebase, Lottie, payment gateway

Face Unlock System   **August 2024 - October 2024**

(Freelance)

Developed a face recognition-based door unlocking system for Android using Flutter and TensorFlow Lite. Utilized MobileFaceNet and FaceSDK for on-device facial authentication. Upon successful recognition, the system triggered an API call to unlock the door. If the face was not recognized, the system prompted the user to scan a real-time QR code from the fitness app for secondary verification. Upon successful QR validation, the new face was automatically registered for future recognition.

- Keywords: Face recognition, biometric authentication, fallback QR flow, automated registration
- Technologies: Flutter, TensorFlow Lite, MobileFaceNet, FaceSDK, REST API

FuelMaster – Fuel Management System   **January 2025 - February 2025**

(Academic Group Project)

Built a full-stack fuel management system for vehicle owners and fuel stations. Key features included fuel station and vehicle owner registration, vehicle registration with QR code generation and renewal, a mobile QR scanner app for pumpers, and real-time fuel quota updates via SMS. The system included OTP-based registration and a mock integration with a government vehicle registry.

- Keywords: QR code authentication, real-time fuel quota, SMS & OTP verification, Heroku
- Technologies: Spring Boot, PostgreSQL, React.js, ShadCN, Flutter, Axios, Tailwind CSS

3D Portfolio Website   **January 2025 - Present**

(Individual)

Created an interactive 3D personal portfolio to showcase projects and skills. Implemented smooth animations, 3D elements, and responsive design for an engaging user experience.

- Keywords: 3D UI, animations, responsive design, personal branding
- Technologies: React.js, Three.js, Tailwind CSS, Framer Motion, GitHub Actions

ACHIEVEMENTS

- **1st Runner Up:** Junior Hack: 2025 Intra university Hackathon, organized by SESA University of Kelaniya
- **Semi-Finalist:** CryptX 1.0 Hackathon, organized by ICTS, University of Sri Jayewardenpura.

ADDITIONAL INFORMATION

- **Languages:** Sinhala(Native), English(Intermediate)
- **Certifications:** Exploratory Data Analysis for Machine Learning(IBM), Supervised Machine Learning: Regression(IBM), Intro to Machine Learning(Kaggle)

REFERENCES

- **Dr. Nalin Warnajith**
  Head, Software Engineering Teaching Unit, University of Kelaniya
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- **Dr. Isuru Hewapathirana**
  Senior Lecturer (Grade II), Software Engineering Teaching Unit, University of Kelaniya
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