

Kasun Chamika De Mel

BSc (Hons) in Software Engineering, Sri Lanka Technology Campus, Sri Lanka

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PROFESSIONAL SUMMARY

Final-year BSc (Hons) Software Engineering student with strong knowledge in full-stack web development. Skilled in building web and mobile applications using React.js, Next.js, Node.js, Python, and REST APIs. Hands-on experience through academic and personal projects involving frontend, backend, databases, and basic machine learning. Seeking a Full-Stack Developer internship to apply skills, learn from industry projects, and grow as a software engineer.

EDUCATION

- **Sri Lanka Technology Campus (SLTC)**

BSc (Hons) in Software Engineering

◦ GPA: 3.47 / 4.00

July 2022 - Present

Meepe, Padukka

- **Central College Anuradhapura**

G.C.E. Advanced Level Examination - Physical Science

2009-2019

Anuradhapura

PROJECTS

- **Moodmate – Empathetic Virtual Companion for Real-Time Emotional Support** [GitHub](#)
Python, Flask, TensorFlow, OpenCV, Electron.js, NoSQL
 - * Developed a real-time emotion recognition system using CNN and RNN models with TensorFlow and OpenCV for facial and voice-based emotion analysis.
 - * Built an interactive Electron.js virtual companion with Llama 3.1 integration for personalized responses.
 - * Worked on full-stack development, machine learning model development, and backend integration.
- **CrickInfo – Sri Lankan Cricket Squad Selector** [GitHub](#)
Next.js, Flask, Python, Random Forest, Pandas, Scikit-learn
 - * Developed a machine learning-powered cricket squad selection platform using a Random Forest model.
 - * Built a fully integrated Next.js frontend and Flask backend.
 - * Worked on API architecture and machine learning model integration.
- **Web Drop Core – Peer-to-Peer File Sharing Application** [GitHub](#)
React.js, Node.js, TypeScript, Express, WebRTC, Socket.IO
 - * Developed a peer-to-peer file transfer application using WebRTC and Socket.IO.
 - * Enabled secure direct file transfer between devices without server-side storage.
 - * Implemented frontend and backend components supporting multiple operating systems.
- **Personalized Diet and Exercise Planner from Meal Images** [GitHub](#)
React.js, Flask, TensorFlow, OpenCV, Python, Scikit-learn
 - * Developed a meal recognition system using EfficientNet with 79% accuracy.
 - * Implemented automated calorie estimation and a recommendation engine using collaborative filtering.
 - * Worked on backend development and machine learning model optimization.
- **Network Intrusion Detection System** [GitHub](#)
Python, Flask, HTML, CSS, Scikit-learn
 - * Developed a machine learning-based intrusion detection system using SVM and Random Forest.
 - * Achieved 90% accuracy on benchmark datasets.
 - * Built a Flask-based interface for real-time monitoring and alerts.
- **Construction Company Website** [GitHub](#)
React.js, TypeScript, TailwindCSS, shadcn/ui
 - * Developed a fully responsive company website showcasing services, projects, and contact details.
 - * Implemented modern UI components using React, TypeScript, and TailwindCSS.
 - * Handled UI/UX design, frontend development, and deployment on Vercel.

- **Sri Lanka Travel Blog Website** [GitHub](#)
Next.js, React, TypeScript, TailwindCSS, Framer Motion, shadcn/ui
 - * Built a multi-page travel blogging platform featuring destinations and tourism categories.
 - * Implemented responsive layouts and advanced animations using Framer Motion.
 - * Developed reusable UI components and deployed the site on Vercel.
- **Sri Lankan NIC Decoder Mobile Application** [GitHub](#)
Flutter, Dart, Android, iOS
 - * Developed a mobile application to decode Sri Lankan NIC numbers.
 - * Extracted birth date, gender, and age with validation for old and new NIC formats.
 - * Implemented core algorithms and mobile UI using Flutter.

SKILLS

- **Programming Languages:** JavaScript, TypeScript, Python, Java, C
- **Frontend:** React.js, Next.js, HTML, CSS, TailwindCSS, WordPress
- **Backend:** Node.js, Flask, Python, REST APIs
- **Databases:** MongoDB, MySQL
- **Machine Learning:** TensorFlow, Scikit-learn, OpenCV, Pandas
- **Tools:** Git, GitHub, Docker, AWS, Vercel, Postman

CERTIFICATIONS

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|--|-------------------|-------------------|
| • Oracle Cloud Infrastructure 2025 Certified Generative AI Professional | Oracle University | Issued: 10 / 2025 |
| • Oracle Cloud Infrastructure Digital Assistant Professional | Oracle University | Issued: 10 / 2025 |
| • AWS Cloud Practitioner Essentials | AWS Skill Builder | Issued: 12 / 2025 |
| • Amazon EKS - Training Badge | AWS Skill Builder | Issued: 12 / 2025 |
| • DevOps on AWS | AWS Skill Builder | Issued: 12 / 2025 |

VOLUNTEER EXPERIENCE

- **Director & Coordinator**
Leo Club of SLTC
- **Active Member**
IEEE Student Chapter of SLTC

REFERENCES

1. **Mr. Asitha Wijewardhane**
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Sri Lanka Technology Campus, Meepe
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