

# Kasun Chamika De Mel

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

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[www.linkedin.com/in/kasun-chamika-11a88a281](https://www.linkedin.com/in/kasun-chamika-11a88a281) | <https://github.com/KasunChamikaDeMel>

## 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)** July 2022 - Present  
*BSc (Hons) in Software Engineering*  
Meepe, Padukka
  - GPA: 3.47 / 4.00
- Central College Anuradhapura** 2009-2019  
*G.C.E. Advanced Level Examination - Physical Science*  
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

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

## VOLUNTEER EXPERIENCE

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

## REFERENCES

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