

# Kasun Chamika De Mel

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

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## ABOUT ME

Final-year BSc (Hons) Software Engineering student with strong proficiency in full-stack development, AI/ML pipelines, and modern cloud-based application engineering. Experienced in building scalable web, mobile, and ML-driven solutions using React.js, Next.js, Node.js, Flask, TensorFlow, Flutter and cloud platforms. Passionate about designing efficient architectures, integrating AI models into real-world products, and delivering reliable, user-centric software systems. Seeking a Full-Stack Developer role to apply academic knowledge and hands-on project experience in professional environments.

## EDUCATION

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

*BSc (Hons) in Software Engineering*

◦ Current 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** | Group | Full-Stack [Q]  
*Python, ML, TensorFlow, OpenCV, Electron.js, AI, NoSQL*
  - \* Developed a real-time emotion recognition system using CNN/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.
  - \* **My Contribution:** Full-stack development, ML model development, backend integration.
- **Sri Lankan Cricket Squad Selector** | Group | Full-Stack [Q]  
*Next.js, Flask, Python, RandomForest, Pandas, Scikit-learn*
  - \* Developed a machine learning-powered cricket squad selection platform using a Random Forest model with a fully integrated Next.js frontend and Flask backend.
  - \* **My Contribution:** Full-stack development, API architecture, ML model integration.
- **Personalized Diet & Exercise Planner from Meal Images** | Group | Full-Stack [Q]  
*React.js, Flask, TensorFlow, OpenCV, Python, Scikit-learn*
  - \* Developed a meal recognition system using EfficientNet (79% accuracy) with automated calorie estimation and a recommendation engine powered by collaborative filtering.
  - \* **My Contribution:** Backend engineering, ML model development, and optimization.
- **Network Intrusion Detection System** | Solo | Full-Stack [Q]  
*Python, Flask, ML, HTML, CSS, Scikit-learn*
  - \* Developed a machine learning-based intrusion detection tool using SVM and Random Forest, achieving 90% accuracy on benchmark datasets. Developed a Flask-based interface for real-time monitoring and alerting.
  - \* **My Contribution:** ML model development, frontend and backend engineering.
- **Construction Company Website** | Solo | Frontend [Q]  
*React.js, TypeScript, TailwindCSS, Shadcn/UI*
  - \* Developed a fully responsive company website showcasing services, projects, contact, and testimonials, with modern UI/UX components using React, TypeScript, and TailwindCSS.
  - \* **Contribution:** UI/UX design, frontend development, and deployment on Vercel.
- **Sri Lanka Travel Blog Platform** | Solo | Frontend [Q]  
*Next.js, React, TypeScript, TailwindCSS, Framer Motion, Shadcn/UI*
  - \* Built a multi-page travel blogging platform featuring destinations, culture, and tourism categories with a modern, responsive interface. Implemented advanced animations using Framer Motion and built a scalable component architecture with reusable UI systems.
  - \* **Contribution:** Frontend development, UI/UX design, animation implementation, and deployment.

- **Sri Lankan NIC Decoder Mobile Application | Solo | Mobile App** [Q]  
*Flutter, Dart, Android, iOS, Git*
  - \* Built an android mobile app that decodes Sri Lankan National Identity Card numbers to extract personal details including birth date, gender, and age. Designed an intuitive user interface with validation for different NIC formats (old 10-digit and new 12-digit)
  - \* **Contribution:** Mobile app development, algorithm implementation

## SKILLS

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- **Full-Stack Development:** React.js, Next.js, Node.js, Flask, Python, FastAPI, TypeScript, Java, C, HTML, CSS, MongoDB, MySQL, Figma
- **Frontend Development:** React.js, Next.js, Flutter, Figma, HTML, CSS
- **Backend Development:** Node.js, Python, Flask, REST APIs, MongoDB, SQL
- **AI/ML & Data Science:** TensorFlow, Scikit-learn, OpenCV, Pandas, Deep Learning
- **Tools & Platforms:** AWS, Git, GitHub, Docker, Vercel, Laravel, Postman

## LATEST CERTIFICATIONS

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- **Oracle Cloud Infrastructure 2025 Certified Generative AI Professional** Issued: 10 / 2025  
*Oracle University*
- **Oracle Cloud Infrastructure Digital Assistant Professional (Oracle University Lab)** Issued: 10 / 2025  
*Oracle University*

## VOLUNTEER EXPERIENCE

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- **Director & Coordinator** *Led club operations and community projects, developing leadership and project management skills.*  
*Leo Club of SLTC*
- **Active Member** *Participated in technical workshops, coding competitions and events on emerging technologies.*  
*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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2. **Mr. Charith Dhananjaya**  
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