# Oshan Madawa

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## About Me

A self-driven and dedicated individual with a strong passion for achieving goals through hard work and determination. As a collaborative team player with a focus on delivering impactful results, I bring a proactive mindset and a deep enthusiasm for contributing to meaningful projects.

## Skills

- **Programming Languages**: Python | Java | JavaScript | Typescript
- **Technical Fields**: Full Stack Development | Machine Learning
- **Databases:** MySQL | MongoDB | PostgreSQL | Firebase Firestore
- **Tools & Services:** Git | GitHub | Docker | Jira | AWS | Figma | Postman | Cypress
- **Frameworks:** ReactJS | NextJS | ExpressJS | React Native | Intellij IDEA | Visual Studio

## Soft Skills

- Leadership
- Team Work
- Time Management
- Eager to Learn
- Problem Solving
- Critical Thinking

## Education

**BSc Eng Hons, Computer Science & Engineering**
*University of Moratuwa*                2021 - Present
- CGPA : 3.45 / 4
- Minor in Mathematics

**Rahula College Matara**                2013 - 2019
- G.C.E A/L 2019: 3A Passes (Physical Science Stream) | Island Rank : 142
- G.C.E O/L 2016: 9A Passes

## Certifications

- Supervised Machine Learning: Regression and Classification | DeepLearning.AI (cert)
- JavaScript Essential Training | LinkedIn (cert)
- Front-End Web Development with React | Coursera
- Introduction to Generative AI | Google (cert)
- Introduction to Large Language Models | Google (cert)

## Experience

**Karmo (Pvt) Ltd**                2023 Nov - 2024 May
*Software Engineering Intern*
- Worked on Three projects
  - Vouch and MyKarmo (Flagship Product)
  - Customer Score Engine
  - Test Automation Project
- Developed practical skills in backend development using Node.js and Express, data management, cloud technologies (AWS), and UI development with React.js while contributing to the Vouch/MyKarmo project. Additionally, gained hands-on experience in test automation using Cypress.
- Designed and implemented a Customer Score Engine, reducing onboarding time by 30% and enhancing customer segmentation accuracy. Presented findings to a team of 10 engineers and Business team.
- **Tech Stack:** *ReactJS, ExpressJS, NextJS, NodeJS, Docker, PostgreSQL, TypeScript, Tailwind CSS, Python, Cypress*

**Director of Web**                2022 June - 2023 June
*UoM Leos Sri Lanka*
- Started the "Devathon 1.0" Web Development Competition (Received two A2CON Awards in Leo District 306A2)
  - **Best Project for Youth Empowerment**
  - **Best Joint Intra District Project**
- Conducted a Web Development Workshop for Leos
- Developed the Leo Scroll App (medium)

## Projects

**Explainable ML models for analyzing Emotional Valence from fMRI data (Ongoing)**                2024 May - Present
- Final Year Research Project
- Focused on enhancing model explainability for predicting valence from fMRI data, with the implementation of Graph Neural Networks (GNN) for improved model performance and interpretation.
- **Tech Stack :** *TensorFlow, Keras, Sckit-learn, Matplotlib, LRP, SHAP*

## ✦ Highlights

- **Dean's List:** Semester 7 (SGPA 3.84)
- **mSpace Code Blast National Hackathon 2023**: Finalist | Built a Multi-language Translation Service
- **MoraXtreme 7.0 2022 :** Rank 54
- **IEEEXtreme 17.0 2023 :** Island Rank 85
- **Extra Curricular Activity** : Content Creating, Video Editing
- **Sports** : Badminton, Muay Thai
- University Badminton Team Player (UMISF 2023)

## ✦ Languages

- **English**
- **Sinhala**

## ✦ References

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## Driving License Test Application
*2023 Aug - 2023 Oct*

- DriveSmart is an innovative online learning web application and mobile application designed to revolutionize the process of preparing for driving license tests in Sri Lanka
- **Contribution**: *Full Stack Development*
- ([GitHub](#)) ([Video](#))
- **Tech Stack :** *ReactJS, React-Native, NodeJS, MongoDB, ExpressJS, AWS, Bootstrap*

## Customer Score Engine
*2023 Nov - 2024 Feb*

- One of my Internship Projects
- Developed the KYC product for the new customer onboarding system and evaluated the existing customers.
- Researched existing rule engines and score engines to identify the best fit for the project, then implemented a demo Customer Score Engine, and presented it to the team.
- **Tech Stack :** *Python, PyTorch, Sckit-learn, MongoDB*

## VoteZone - Online Voting Platform
*2024 June - 2023 Sep*

- VoteZone is a web-based online voting system that helps to manage elections easily and securely.
- ([GitHub](#))
- **Contribution**: *Frontend Development*
- **Tech Stack :** *ReactJS, TypeScript, Material UI, HTML, CSS*

## Job Finder - Job Portal Web App
*2023 Sep - 2023 Nov*

- Developed a job board app enabling keyword, location, and job type searches, with detailed job listings. Users can view more details or apply for the job
- ([GitHub](#))
- **Contribution**: *Full Stack Development*
- **Tech Stack :** *ReactJS, JavaScript, NodeJS, Material UI, HTML, CSS*

## Cosmic Ways - Space Travel Booking App
*2023 Aug - 2023 Oct*

- For the Tech-Triathlon Hackathon by Rootcode
- It is an innovative mobile application designed for space travel. In the first stage, we came up with a design for the app using Figma and Balsamiq. In the next stage, we implemented the mobile app.
- ([GitHub](#))
- **Contribution**: *Frontend Development*
- **Tech Stack :** *React Native, MySQL, Firebase, Node JS*

## Talk Together
*2023 Sep - 2023 Nov*

- A mobile application solution for real-time voice call translation, A solution for language barrier in sri lanka. The system supports real-time message translation while sending and retrieving, for any common language
- ([GitHub](#))
- **Contribution**: *Frontend Development*
- **Tech Stack :** *Flutter, Dart, MongoDB*

## Email Client
*2022 June - 2022 Aug*

- Java-based command-line application for managing recipients, sending emails, and automating birthday wishes. Easily add new recipients, compose emails, and track sent messages.
- **Tech Stack :** *Java*

## Leo Scroll
*2021 April - 2021 Aug*

- This is a social platform for all the Leos from around Sri Lanka to publish their work with the community
- **Tech Stack :** *Flutter, Dart, Firebase, Node.js*
- ([medium](#))