

# RUKSHAN FERNANDO

Software Engineering Intern



## About Me

As a motivated and dynamic individual, I am passionate about teamwork and effective communication. I enjoy facing challenges and achieving goals while constantly seeking to acquire new skills in working with emerging technologies. I am excited about the opportunity to work as a **software engineering intern**, where I can further develop my technical expertise and gain valuable hands-on experience in the field.

## Contact

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## Technical Skills

### Programming Language

- Java
- C
- Python
- JavaScript
- Dart
- C++

### Web Development

- HTML5
- CSS3
- MUI
- Tailwind CSS
- MERN
- MEAN

## Education

### University of Moratuwa

B.Sc. (Hons.) in Information Technology  
2022 - 2026 (Expected)

2022 - Present

Last two semester GPA  
L2S2 - SGPA 3.40  
L2S1 - SGPA 3.58

## Projects

### Car Selling and Buying Website

Project Leader | Developer

Technologies : *Next.js, TypeScript, Node.js, MySQL, Sequelize*

Led a team in developing a car-selling platform with multi-language support for Sinhala, English, and Tamil.

- Home page: Implemented filter and search functionality (brand, model, price, etc.) for users to compare vehicles and check prices.
- Dashboard page: Designed interactive cards displaying the top vehicle brands and models with sorting by location and type.
- Multi-language support: Used i18next for seamless language switching, enhancing accessibility for diverse users.

The result was a data-driven platform offering comprehensive vehicle insights and comparisons.

### UniKart - E-Commerce App. | Link

Developer

Technologies : *MERN stack (MongoDB, Express.js, React, Node.js)*

#### Features for Admin (Shop Owner):

- Add and manage products, categories, and subcategories.
- View buyers' purchase details.
- Monitor inventory with remaining product quantities.

#### Features for Buyers:

- Browse and add items to the cart.
- Purchase items using cash on delivery or card payment.

#### CI/CD Integration:

- Implemented CI/CD pipelines using GitHub Actions.
- Automated Docker image build and pushed to Azure Container Registry (ACR).
- Configured ACR webhooks for automatic deployment to Azure Web Apps.

## Database

- MySQL
- MSSQL
- Redis
- MongoDB
- Firebase
- PostgreSQL

## Frameworks and Libraries

- Express.js
- Next.js
- Angular
- React
- Flutter
- Bootstrap

## Cloud Hosting

- AWS
- Microsoft Azure
- Heroku
- Google Cloud

## Software and Tools

- Git
- Docker
- Swagger
- Postman
- IntelliJIdea
- VS code
- C-Lion
- Android Studio
- Canva
- Figma
- Slack
- Discord
- MS Word
- MS Excel
- PowerPoint
- MS PowerApps

## Reference

- **Ms. Wijesuriya W.M.R.M.**  
Senior Lecturer  
Department of Information Technology  
Faculty of Information Technology  
University of Moratuwa.  
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- **Mr. Charitha Deshapriya**  
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### Jeft - E-Scooty Rental App. (Ongoing)

Frontend Developer

**Technologies :** *React (PWA), MaterialUI, SpringBoot, MySQL*

- QR Code Integration: Scan QR codes to unlock scooters.
- Rental System: Pay hourly rates via card payment.
- Real-time Information: View scooter battery capacity and availability at current locations.
- Trip History: Access previous trip details.

### INTECS(IT Fac.) Forum Development

Developer

**Technologies :** *MongoDB, Express.js, React.js, Node.js (MERN stack)*

- Enhanced authentication with email verification for improved security.
- Streamlined code and ensured data integrity.
- Developed a responsive web app tailored to INTECS community needs.
- Collaborated on integrating features and refining the UI for better user experience.
- Designed professional email templates with **beefree.io** for consistent communication

### HackMoral 6.0 - Official Website | Link

Developer

**Technologies :** *Next.js, Typescript, TailwindCSS*

- Organized by INTECS, Faculty of Information Technology, University of Moratuwa
- Developed and hosted the HackMoral 6.0 website for a 5-hour coding competition using Next.js, TypeScript, and Tailwind CSS.
- Ensured responsive design and optimal performance, deploying the site on Vercel for efficient updates and management.

### Certificate\_Sender

Owner (Developer)

**Technologies :** *Node.js, NodeMailer, Excel Integration*

- Automated certificate distribution for CodeRush Coding Competition 2024.
- Sent personalized emails with certificates attached using NodeMailer.
- Integrated with Excel for seamless access to participant data and certificate links.
- Designed professional email templates with **beefree.io**.

### Personal Portfolio Website (Ongoing)

Owner (Developer)

**Technologies :** *Next.js, Node.js, MongoDB*

- Building a modern portfolio site with Next.js and TypeScript for an efficient frontend.

## Employment

### Factory Manager & Lab Technician

**Hiru Food Product (Pvt) Ltd, Palaviya**

**2021 – 2022**

- Successfully managed factory operations and achieved SLS certification by improving production processes and ensuring product quality and safety standards.

## Extracurricular Activities

### Assistant Editor

**2023 – 2024**

INTECS, Faculty of Information Technology, University of Moratuwa

### Spiritual Vice President

**2023 – 2024**

Catholic Students Movement, University of Moratuwa

### Unit Representative (UOM)

**2024 – 2025**

Sri Lanka University Catholic Students' Movement