

# Ranju Gamage BSc (Eng) Hons, MSc (Reading)

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LinkedIn [linkedin.com/in/ranju-laksahan](https://www.linkedin.com/in/ranju-laksahan) GitHub [github.com/RanjuLG](https://github.com/RanjuLG) Location Kandy, Sri Lanka

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Software Engineer with hands-on experience in developing and optimizing software using .NET and Angular. Strong expertise in data processing, analytics, and database management. Passionate about building scalable, efficient systems and collaborating on innovative projects to drive technological advancements.

## TECHNICAL SKILLS

**Programming Languages**  
C# | JavaScript | Python

**Backend Frameworks**  
.NET | ASP.NET CORE

**Frontend Frameworks**  
Angular | React

**Cloud & DevOps**  
Azure App Service | Azure Functions | Azure DevOps | GitHub Actions

**Database Technologies**  
MS SQL Server | MySQL | PostgreSQL | MongoDB

**Version Control & Project Management**  
Git | GitHub | GitLab | Jira | Trello

## WORK EXPERIENCE

### DSP Engineering Solution Pvt. Ltd.

Software Engineer

Designing and developing building automation software solutions for Singapore-based clients, using .NET and Angular.

08/2023 – Present  
Kandy, Sri Lanka

- Work closely with stakeholders throughout the Software Development Life Cycle (SDLC) — from requirement gathering to software design, testing, deployment, and ongoing maintenance.
- Responsible for deploying applications to production servers, ensuring stability and smooth operation in live environments.
- Designed and implemented RESTful APIs to streamline data communication and improve system efficiency.
- Developed Windows services for real-time data processing and analytics, enhancing system performance.

Key Projects:

- Energy Management System Developments -ASP.NET Core Web API | Windows Service(.NET Framework) | Angular | Microsoft SQL Server | MongoDB
- Integration of Maintenance Management System with User Management System - ASP.NET Core Web API | Angular
- Tenant Billing System Configuration Module Design - ASP.NET Core Web API | Angular | Microsoft SQL Server
- Windows Desktop Application Design for Licence Verification - C# Windows Forms App

## EDUCATION

### Master of Science in Computer Science (Reading)

Postgraduate Institute of Science, University of Peradeniya

2024 – present  
Peradeniya, Sri Lanka

### Bachelor of the Science of Engineering Honours

Faculty of Engineering, University of Peradeniya

11/2017 – 03/2023  
Peradeniya, Sri Lanka

### Ranabima Royal College

GCE A/L Examination 2016 (3231143) 2A, 1B  
GCE O/L Examination 2012 (23568240) 8A, 1C

2007 – 2015  
Peradeniya, Sri Lanka

## INTERESTS

Fullstack Development

## PROJECTS

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### Shop Management System (SMS) - Jewelry/Gold Pawn Shop Application

Tech Stack: .NET 8.0, Angular 18, SQL Server, Bootstrap 5, Tailwind CSS, Chart.js, JWT Authentication

- Developed a full-stack pawn management system with customer onboarding, inventory tracking, and loan processing using real-time gold valuation.
- Implemented role-based authentication (JWT), invoice generation (PDF/Excel), and analytics dashboards for business reporting.

Frontend (Angular) ↗ | Backend (.NET API) ↗

### TaskMate - Cross Platform On-Demand Service Marketplace

Tech Stack: .NET 10, .NET MAUI, PostgreSQL, Entity Framework Core, SignalR, Mapsui, Refit, Serilog, JWT Authentication, CommunityToolkit.Mvvm

- Built a cross-platform mobile and web solution for posting and fulfilling local tasks using .NET MAUI and a .NET Web API backend with PostGIS for geospatial features.
- Implemented real-time updates via SignalR, secure JWT authentication, and interactive maps for task location tracking.

Frontend (Angular) ↗ | Backend (.NET API) ↗

### UMS - User Management System - Centralized Authentication & Authorization System

Tech Stack: Angular 20, .NET 8, Entity Framework Core 8, SQL Server, Angular Material, JWT Authentication, Swagger, BCrypt, RxJS

- Developed a robust User Management System serving as a centralized authentication hub with multi-platform management and granular permission control.
- Implemented secure JWT-based authentication with complex claim structures and a modern Angular frontend for administrative tasks.

Frontend (Angular) ↗ | Backend (.NET API) ↗

## CERTIFICATE COURSES

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### Server-Side Web Programming - Centre for Open & Distance Learning (CODL) University of Moratuwa, Sri Lanka ↗ (Credential ID: krlaSZSxKk)

### Front-End Web Development – Centre for Open & Distance Learning (CODL) University of Moratuwa, Sri Lanka ↗ (Credential ID: xW9Zlc6Lr4)

### Professional Practice in Software Development - Centre for Open & Distance Learning (CODL), University of Moratuwa, Sri Lanka ↗ (Credential ID: A3vm9AYt1C)

### Introduction to DevOps - IBM ↗ (Credential ID: 4MCFHGLT7PW9)

## EXTRA-CURRICULAR ACTIVITIES

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### Badminton

- Runner Up (Mixed Doubles) at the 'Shuttle Champs' Badminton Championship 2023, University of Peradeniya
- Semi-Finalist (Singles & Doubles) at the 'Shuttle Champs' Badminton Championship 2023, University of Peradeniya
- Captain - Ranabima Royal College Badminton team 2011-2012
- Champion and Best Player of Under 13 & Under 15 categories (Singles, Doubles) at the Ranabima Royal College.

### Rotaract Club of University of Peradeniya

Member

2018 – 2023

## VOLUNTEER EXPERIENCES

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### Arunella Social Service Programme

Engineering Students Union - University of Peradeniya

2018 – 2023

- Spearheaded the creation of a computer lab and a Home Science unit for Balana Junior School, significantly improving educational resources for students.(2022 - 2023)
- Organized O/L Science and Maths seminar series to uplift students' educational standards nationwide. (2019)