

# Ranju Gamage

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

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🌐 github.com/RanjuLG    📍 Kandy, Sri Lanka

Software Engineer with 2+ years of 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

**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

08/2024 – present

Peradeniya, Sri Lanka

#### Bachelor of the Science of Engineering Honours

Faculty of Engineering, University of Peradeniya

11/2017 – 03/2023

Peradeniya, Sri Lanka

#### GCE A/L Examination 2016 (3231143) - 2A, 1B

Ranabima Royal College

2007 – 2015

Peradeniya, Sri Lanka

## 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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Serverside Web Programming - Centre for Open & Distance Learning (CODL) University of Moratuwa, Sri Lanka  
[🔗](#) Credential ID: krlaSZSxKk

Frontend 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