

# SADUN ABEYRATNE

SOFTWARE ENGINEER



## PROFILE

I am a self-motivated, creative, and adaptable computer science graduate actively pursuing opportunities in an encouraging work environment to excel and advance as an IT professional, utilizing my skills and knowledge effectively.

## CONTACT

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## TECHNOLOGY

### Programming Languages

- Java
- JS
- Python
- R
- HTML 5 & CSS

### Frameworks

- Springboot
- ExpressJs
- NodeJs
- ReactJs
- Bootstrap
- Django

### Database

- PostgreSQL
- MongoDB

### Interests

- Software Development
- DevOps
- Machine Learning
- Optimization

## WORK EXPERIENCE

### Intern Software Engineer

Axiata Digital Labs | Jan 2023 - Oct 2023

- Implemented and integrated APIs to enhance system functionality and performances using Springboot ReactJS (Redux) and PostgreSQL.
- Created and optimized entities to meet the requirements and integrate with existing codebase.
- Unit testing and code coverage using JUnit and TestNG.
- Ensured clean code practices and optimized quality using SonarQube.

### Loan Management System

- ▶ Developed frontend feature for weekly loan transaction display.
- ▶ Develop backend functionalities to provide Default Loans, Overdue Loans calculations.
- ▶ Implemented KeyCloak for access management.

### Buy Now Pay Later System

- ▶ Implemented a Scheduler service for daily overdue analysis report.
- ▶ Developed a system to send due payment notifications via SMS.
- ▶ Applied a robust logger system for efficient system monitoring.

## EDUCATION

### BSc (Hons) in Computer Science 2023

University of Sri Jayewardenepura, Nugegoda, Sri Lanka

### GCE A/L 2017

Thurstan College, Colombo, Sri Lanka

- Combined Mathematics - B
- Physics - C
- Chemistry - B

## CERTIFICATIONS

- Diploma in Information Technology - 2018
- Diploma in Academic English - 2018

## LANGUAGES

- English: Proficient / Fluent
- Sinhala: Native

## SOFT SKILLS

- Adaptability
- Problem Solving
- Analytical Thinking
- Teamwork

## INTERESTS

- AWS
- Leet Code
- Game Development
- CodePen

## REFEREES

### Dr. D. D. A. Gamini

Senior Lecturer

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### Dr. P. Ravindra S. De Silva

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## PROJECTS

### Social Robot Aimed at Promoting Responsible Waste Disposal Among Children

#### Final Year Project

- Designed and developed a social robot aimed at educating children on proper trash management.
- Adapted an object detection neural network model for efficient trash classification.
- Implemented a Natural Language Processing (NLP) conversation model for interactive communication with users.
- Integrated speech-to-text and text-to-speech functionalities to enhance user engagement.
- Developed a microcontroller hardware system with seamless integration.
- Technologies used: TensorFlow 2, FastAPI, RASA framework, Google Colab, ESP32 controller with servo motors, pyttsx3, Google Speech Recognition

### User Registration & Login System

#### Website

- Implemented a secure user registration and login system with JWT tokens for enhanced security.
- Designed and implemented a responsive user interface to optimize the user experience.
- Technologies used: TypeScript, NextJs, ExpressJs, MongoDB
- ▲ GitHub Repo : [github.com/sma98/FrontEnd](https://github.com/sma98/FrontEnd), [github.com/sma98/BackEnd](https://github.com/sma98/BackEnd)

### Fitness World

#### Website

- Created a web-based gym equipment management system facilitating registration for both trainers and customers to meet their fitness needs.
- Technologies used: MongoDB, ExpressJs, ReactJS, NodeJs

### Tim

#### Assistant Robot

- Developed a voice-enabled personal assistant social robot designed to manage day-to-day simple tasks.
- Technologies used: Raspberry Pi, 3D Design, NLP (Natural Language)

### Bank Management System

#### Console Application

- Developed a console application to efficiently manage banking payments and user interactions.
- Technologies used: C

## EXTRA-CURRICULAR

- Member - Society of Computer Science, University of Sri Jayewardenepura 2022-2023.
- Member - Football team, University of Sri Jayewardenepura 2019.
- President - Inventors society, Thurstan college 2017.