

ISURUMUNI WIJESOORIYA

Computer Science & Engineering Student at University of Moratuwa

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PROFILE

Enthusiastic and motivated Computer Science and Engineering student with a strong foundation in programming, problem-solving, and software development. Passionate about learning new technologies and applying knowledge to real-world challenges. Seeking an internship opportunity to gain hands-on experience and contribute to impactful software projects.

EDUCATION

Royal College, Colombo 7
University of Moratuwa

2013 – 2021

BSc. Computer Science and Engineering
Since 2023

WORK EXPERIENCE

Software Engineering Intern
May 2025 – Present

Roboticgen Pvt Ltd, Colombo

- Designed and implemented RESTful APIs using FastAPI, PostgreSQL, and SQLAlchemy.
- Developed front-end components using Next.js to build responsive and interactive user interfaces.
- Built and optimized a dynamic PDF report generation system using ReportLab.
- Integrated MQTT messaging and advanced scheduling using APScheduler for event-driven automation.
- Deployed scalable microservices on AWS using EC2, S3, and ECS.
- Conducted unit testing and performance profiling using PyTest to ensure reliability and efficiency.

EXPERTISE

- Problem Solving
- Critical Thinking
- Time Management
- Communication Skills
- Teamwork & Collaboration

TECHNICAL SKILLS

- **Languages:** Python, Java, C/C++, JavaScript, Go
- **Frontend:** HTML5, CSS3, Tailwind CSS, React.js, Next.js
- **Web/Backend:** FastAPI, Node.js, Express.js
- **Databases:** MySQL, PostgreSQL, SQLite
- **DevOps:** Docker, Jenkins, GitHub Actions
- **Cloud:** AWS (EC2, S3, Lambda)
- **Tools:** Git, GitHub, Postman, VS Code, Redis
- **OS:** Linux (Ubuntu), Windows

PROJECTS

Full Stack Human Resource Management System

Python / FastAPI / MySQL

- Developed a back-end system for employee attendance, personal details, leave requests, and access control.
- Integrated Redis-based caching to improve data retrieval performance.
- Secured the API with JWT-based authentication and role-based access control.

AI-powered VS Code Extension

Node.js / OpenAI API / TypeScript

- Created a VS Code extension using OpenAI API to assist developers with code reviews and comment generation.
- Enabled fast-submission to GitHub repositories via Linux CLI integration.
- Focused on improving developer productivity and minimizing manual review efforts.

CLI To-Do List Application

Golang

- Built a command-line based to-do list app with task creation, completion, filtering, and file-based persistence.
- Designed for speed, minimalism, and effective command-line productivity.

RPAL Interpreter

Python / Compiler Theory / Automata

- Developed an interpreter for RPAL (Right-reference Pure Applicative Language) as part of a language processing and compiler design project.
- Implemented lexical analysis, syntax parsing (recursive descent), and expression tree construction using abstract syntax trees (AST).
- Added support for lambda calculus, let and letrec expressions, conditionals, and function application.
- Built a stack-based evaluation engine to execute user-defined programs interactively.
- Used symbol tables and scope management to handle variable bindings and closures.
- Demonstrated understanding of formal grammar, recursive parsing, and functional evaluation.

Financial Investment Advisor

FastAPI / Python / PostgreSQL / React.js / ML / CSS

- Developed core backend services using FastAPI with PostgreSQL integration for user and financial data management.
- Managed project planning, team coordination, and delivery as the project manager for Group J.
- Collaborated with sub-teams working on ML-based stock prediction, NLP-based budgeting, and portfolio optimization.
- Integrated Yahoo Finance API for real-time stock data and financial forecasting with LSTM and Monte Carlo simulations.

CERTIFICATIONS

- AWS Certified Cloud Practitioner – Amazon Web Services
- Postman Student Expert – API Fundamentals
- GitHub Fundamentals

COURSES

- Red Hat Certified System Administrator – In Progress
- Introduction to Jenkins – Linux Foundation
- Getting Started with Redis – Redis University

AWARDS

- SLIIT Codefest CTF 2025 – Winner
- CRYPIX CTF 2025 – 4th Place
- APPIT CTF 2024 – Winner

EXTRA CO-CURRICULAR ACTIVITIES

- ADScAI Symposium Organizing Committee Member - Organized by CSE Department
- IEEE Xstream 18.0 - Certificate of participation
- Career Fair - Company Coordinator

REFERENCES

Prof. Dulani Meedeniya

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University of Moratuwa
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