ISURUMUNI WIJESOORIYA

Computer Science & Engineering Student at University of Moratuwa

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PROFILE

Computer Science and Engineering undergraduate with hands-on experience designing and developing scalable backend systems, RESTful APIs, and cloud-native applications using Python, Go, and TypeScript. Experienced in microservices, authentication and authorization with Keycloak, AWS cloud services, CI/CD pipelines, Docker, and relational databases. Passionate about building secure, reliable, and high-performance software while collaborating in agile engineering teams. Eager to contribute strong backend engineering and problem-solving skills to develop robust, production-ready systems.

EDUCATION

Royal College, Colombo 7 — 2013 – 2021
GCE Advanced Level – Physical Science Stream: 3As in Combined Mathematics, Physics, Chemistry

University of Moratuwa — **BSc. Computer Science and Engineering** (Since 2023)

WORK EXPERIENCE

Full-Stack Developer (Part-time) — *RoboticGen Pvt Ltd, Colombo*
May 2025 – Present

- Designed and implemented scalable RESTful APIs using **FastAPI**, **PostgreSQL**, and **SQLAlchemy**.
- Developed responsive web applications using **Next.js**, React, and Tailwind CSS.
- Built a dynamic PDF report generation system using **ReportLab** for automated reporting.
- Integrated **MQTT** messaging and **APScheduler** to support real-time event-driven automation and scheduled workflows.
- Designed and managed authentication and authorization using **Keycloak**, including user provisioning, role-based access control (RBAC), LDAP/Active Directory integration, and Single Sign-On (SSO).
- Configured secure authentication flows using **OpenID Connect (OIDC)** and OAuth 2.0.
- Designed and maintained **CI/CD pipelines** using GitHub Actions to automate testing, build, and deployment processes.
- Containerized services using **Docker** and deployed applications on **AWS EC2**, and Nginx as a reverse proxy.
- Worked with Linux servers, systemd services, SSL certificate management, and production deployment troubleshooting.

Software Engineering Intern — *WealthOS Asia Pvt Ltd*
Nov 2025 – May 2026

- Developed backend services and serverless applications using **TypeScript** and AWS services.
- Built and deployed scalable solutions using **AWS Lambda**, integrating with **DynamoDB, Secrets Manager, CloudFront, Route 53, API Gateway, and SES** to enable high-performance and reliable cloud-based applications.
- Implemented secure authentication and user management using **Amazon Cognito with Google Workspace**.

- Utilized **Amazon S3** for efficient storage and retrieval of application assets and data.
- Gained hands-on experience in designing cloud-native architectures and working with event-driven systems.

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,Golang
- **Databases:** MySQL, PostgreSQL, SQLite,Redis
- **DevOps:** Docker, Jenkins, GitHub Actions
- **Cloud:** AWS (EC2, S3, Lambda)
- **Tools:** Git, GitHub, Postman, VS Code, Kafka
- **OS:** Linux (Ubuntu), Windows

PROJECTS

Event Ticketing and Management System with Seating Arrangements and Automated Reminders **Github**

Go / Redis / Kafka / Microservices

- Contributing to the design and implementation of the **Order and Ticketing Microservice** within a large-scale microservices-based event ticketing system.
- Developed services in **Go** with asynchronous event-driven communication using **Kafka**.
- Integrated **Redis** for real-time seat state management to prevent overbooking and enhance system performance.
- Collaborated in architectural planning for scalability, using containerized deployments with Kubernetes.

Full Stack Human Resource Management System **Github**

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 **Github**

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 **Github**

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 **Github**

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.

Financial Investment Advisor **Github**

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
- Introduction to Kubernetes (LFS158) – Linux Foundation

COURSES

- Red Hat Certified System Administrator
- 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 Xtream 18.0 - Certificate of participation
- Career Fair - Company Coordinator