SAHIRU WIJESINGHE

COMPUTER SCIENCE AND ENGINEERING UNDERGRADUATE | FREELANCE DEVELOPER

PROFILE

Dedicated Computer Science Engineer with a solid foundation in software development and a strong focus on scalable systems. My DevOps skills enhance my ability to automate workflows, optimize infrastructure, and improve efficiency. I am passionate about solving complex problems and delivering impactful solutions.

CONTACT

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TECHNICAL SKILLS

Programming Languages: Python, Java, TypeScript, JavaScript, Bash, C++, VBA, Apps Script

Web Development: FastAPI, ReactJS, NextJS, Express, Firebase, SpringBoot

Mobile Development: React Native

Database: MySQL, Firestore, Firebase Realtime database, DynamoDB, Redis, Neo4j

Version Control: Git, GitHub, Gitlab

Containerization and CI/CD Automations: Gitlab Pipelines, GitHub Actions, Jenkins, Docker, Packer, Ansible, Terraform

Other: AWS, OWASP ZAP, Datadog, Cloud Custodian

WORK EXPERIENCE

Sysco Labs – Software Engineer (SWMS)
2025 Jun – Present
Built and integrated multiple SIGMA and BlueYonder interfaces leveraging **Spring Boot**, **Kafka**, **PostgreSQL**, and **PL/pgSQL**, including complex data mapping, staging workflows, and status management. Developed unit and E2E tests (**JUnit**, **Cypress**), automated purge and archival processes, authored bash utilities, and contributed to operational resilience through **DR runbooks** and **database performance** optimization research.

GTN Technologies – Intern Software Engineer (Platform Engineering)
2023 Nov – 2024 May
Collaborated with the Platform Engineering team to improve infrastructure automation, security, and delivery efficiency for fintech platforms.
Integrated **static code analysis** and CI enhancements, automated **DAST using OWASP ZAP**, and optimized cloud resources with **Cloud Custodian**. Modularized **Terraform** for reusable IaC, implemented **DORA metrics with Datadog**, and **reduced AMI build times by 62.5% through Packer optimizations**.

Innodata Lanka Pvt. Ltd. - Project Associate
2019 Sep – 2020 Jan
Collaborated on an XML markup project for UK standard documents, using regex, markup tools, and Python to automate key processes. Played a pivotal role in streamlining workflows and ensuring project success through effective teamwork.

Fiverr 🔗 | Upwork 🔗 - Freelance Developer
2019 Oct - Present
Contributed to 700+ projects on Fiverr and Upwork. Experience in web development, Scripting and Automation using Python, JavaScript, VBA, and Google Apps Script.

EDUCATION

BSc Engineering Honors Degree specialized in Computer Science and Engineering - University of Moratuwa (2021 Aug – 2025 Jun)
- CGPA: 3.73
- Dean's List Candidate for Semesters 02, 06, 07 and 08
- Minor in Mathematics

Richmond College Galle (2010 – 2019)
- G.C.E A/L (2019) - Physical Stream – 3As (Island Rank 109)
- G.C.E O/L (2016) – (English Medium) 9As

PUBLICATIONS

- S. P. Wijesinghe, K. R. Gimhan, M. A. T. Sahassaka and I. Perera, "**Intent Classification for Automated Software Deployment Plan Generation: A Transformer-Based Approach**," 2025 Moratuwa Engineering Research Conference (MERCon), Moratuwa, Sri Lanka, 2025, pp. 812-817, doi: 10.1109/MERCon67903.2025.11217057.

HIGHLIGHTS

- **IEEEXtreme 16.0**: Achieved 9th place in Sri Lanka (Global Rank: 220) out of around 3000 global teams participated.
- **IEEEXtreme 15.0**: Achieved 45th place in Sri Lanka.
- **Bashaway 2022 by SLIIT FOSS Community**: Winners of the inter university scripting and automation competition.
- **Code Squad V3.0**: Second Runners Up of the algorithmic programming competition organized by J'pura University.

CERTIFICATIONS

- AWS Cloud Technical Essentials - Amazon Web Services (cert)

SOFT SKILLS

- Critical Problem Solving
- Adaptability
- Communication & Interpersonal Skills
- Leadership & Collaboration

REFERENCES

Prof. Dulani Meedeniya
dulanim@cse.mrt.ac.lk
Professor
Department of Computer Science and Engineering
University of Moratuwa

Hibri Marzook
hibri@hibri.net
Principal Engineer at ClearBank, London, England
Former Head of Engineering – Platform at GTN Technologies, Sri Lanka

PROJECTS

Generative AI for CASE Tool Enhancements: A Generative AI Driven Deployment Assistant (Ongoing)
Tech: NextJS, FastAPI, Neo4j, GroqCloud, DeepSeek

Researching and developing a tool to automate the identification of deployment readiness by analyzing the project state, deployment plan generation and execution for software projects by analyzing the code and learning from user preferences, streamlining continuous integration and delivery workflows. The research includes Agentic Workflows with tool use and Knowledge Graph based personalization to enhance accuracy and efficiency in software deployment.

Cloud Resource Optimization and Automated Policy Management for AMI Cleanup
Tech: Gitlab CI/CD, CloudCustodian, Python, AWS

Developed and implemented an automated policy management system to optimize cloud resources on AWS by enforcing policies for automatic AMI cleanup. The project resulted in streamlined cloud operations, reduced manual effort, and minimized resource waste.

Medicare Assistance System 🔗
Tech: NextJS, FastAPI, Amazon Cognito, SES, ECS, S3

A platform providing insurance assistance for senior citizens, featuring real-time chat, ChatGPT integration, blogs, and FAQs. Contributed to implementing secure authentication, chat functionality, and scalable deployment on AWS.

Post office Management System 🔗
Tech: ReactJS, React Native, ExpressJS, NodeJS, Firebase

A system to automate the process of a post office including the accepting, sorting, and delivering mails. Contributed to develop the mobile app for Postman, admin portal and backend. Implemented a solution to TSP using Christofides algorithm and Simulated annealing. 🔗

Self-learning (Mathematics) platform for O/L students (Ongoing) 🔗
Tech: ReactJS, ExpressJS, NodeJS, Firebase

A system which includes Video Tutorials, Quizzes, Performance Dashboard, Quiz Progress monitoring. Contributed to developing the admin portal and interactive quiz view.

Ticket Reservation System for an Airline service 🔗
Tech: ReactJS, ExpressJS, NodeJS, MySQL

A system to automate the process of booking and reserving seats for flights by B-Airways airline. Contributed to frontend and backend development.

CLI based Email Client
Tech: Java

A command-line email client with contact management, automated mailing, and email sending capabilities. The project emphasized file handling, object serialization, and handling command-line features.