

# Samitha Madumal

DEVOPS · SOFTWARE ENGINEER

Gurudeniya, Kandy

(+94) 71-8702-864 | samitha.mdml@gmail.com | drsamitha | samithamadumal

“Be the change that you want to see in the world.”

## Education

### Uwa Wellassa University

Badulla, Sri Lanka

BACHELOR OF INFORMATION AND COMMUNICATION TECHNOLOGY ( HONOURS )

2021 - 2025

- Special in business intelligence
- Artificial intelligence
- Machine learning
- Deep learning
- Cloud computing
- Information assurance
- Advance database management
- Object oriented programming
- Data structures & algorithms
- The research focuses on the variety of database technologies management through one platform, with the integration of AI technologies into ORM techniques to enhance automation and efficiency.
- Upper class GPA (expected)

## Skills

**DevOps** AWS, Docker, Ansible, n8n, Linux, Windows server, Active directory, Firebase, Git, Bitbucket, NGINX

**Back-end** Django, NestJs, REST API, Fast API

**Database** PostgreSQL, MongoDB, Sqlite3, mysql

**Programming** C, C++, Python ,C#, LaTeX

**Misc** Visual studio, Net beans, Cisco Packet tracer, Nmap, Wireshark, Putty, GDB, Cmake, Boost, Doxygen, QEMU, Google Colab, Jupyter notebook

## Work Experience

### Infact Solutions Pvt Ltd

Kohuwala

DEVOPS AND SOFTWARE ENGINEER

April. 2024 – Oct. 2024

- Complete six months internship as a backend software engineer.
- Designed and provisioned the entire infrastructure on the AWS cloud.
- Use NestJS, Mongo DB, JWT, Swagger, AWS Cognito.
- AWS cognito service for user management from backend.
- Design and develop CI/CD pipeline with github actions.
- Based on Model-view-controller architecture.

### Fiverr – Graphic Design

Upwork – Software Development

FREELANCER

2018 – present

- Use Adobe Photoshop.
- Completed multiple design projects.
- Collaborated with local artists.
- AI projects.
- Desktop software development.

## Extracurricular Activity

## Rajarata university of sri lanka

PIXEL EYE V5.0 - GRAPHIC DESIGN COMPETITION

- Inter university graphic designing competition.
- Graphic design use Adobe Photoshop

Online Competition

Dec - 22 - 2023

## KDE Plasma international free software community

KDE PLASMA 6 WALLPAPER COMPETITION

- International competition for design a wallpaper for major release of KDE plasma version 6
- Published wallpaper submissions via Github
- Licensed under CC-BY-SA 4.0

Online Competition

2023

## Certificates

---

- 2024 **NDG Linux Essentials**, CISCO
- 2024 **C++ programming**, CISCO
- 2023 **Ansible Basics course**, Red Hat

## Writing

---

### Thesis Writing

Uwa wellassa university

AUTHOR

2025

- A comprehensive thesis on "AI-Driven Database Management Systems: Enhancing Data Interaction and Security through Machine Learning Integration," exploring the intersection of artificial intelligence and database technologies.
- Experienced in integrating AI-driven natural language processing with database management systems to simplify data interactions and enhance accessibility. Skilled in combining machine learning, ORM frameworks to improve database security, efficiency, and governance.
- Support for various database systems, including SQL and NoSQL databases like MongoDB, ensuring versatility in application.

## Program Committees

---

- 2025 **Support Team**, UWU EXPO

Uwa wellassa  
university