

Samitha Madumal

SOFTWARE ENGINEER · DEVOPS

Gurudeniya, Kandy

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“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

Provided
technical
support
and as-
sistance
during
the UWU
EXPO
event,
ensuring
smooth
opera-
tions and
address-
ing any
technical
issues
that
arose.