Samitha **Madumal**

DevOps · Software Engineer

Gurudeniya, Kandy

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Education

Uwa Wellassa University
Bachelor of information and communication technology (Honours)

Badulla, Sri Lanka
2021 - 2025

Certificates

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

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

DevOps and Software Engineer
Infact Solutions Pvt Ltd

Online
April. 2024 – Oct. 2024

- Complete six months intership 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 & Upwork
Freelancer

Remote
2018 – present

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

Projects

Manage Different Databases By Single AI Platform
Git Repo

Django / Python / NOSQL / SQL /
ORM / Docker / AI / FastAPI
2025

- Manage relational and non relational databases use simple natural language.
- Python based cross–platform software for interact with the database.
- Support popular relational databases like PostgreSQL, MariaDB, Oracle, sqlite3, etc....
- Maintain MongoDB with support of third party plugin.
- Take advantages of ORM of the django framework for design single DB connection portal that support different databases.
- ML Ops skills for deploy backend AI platform.
- Deploy and maintain different database technologies.
- Collaborate with team for development and design system.

Todo App Backend

GIT REPO

- Backend CRUD operations as API endpoints.
- Containerized using Docker.
- Swagger documentations for endpoints.
- Deploy MongoDB as seperate docker in same network.

Android ADB connection library

GIT REPO

- Library for simplify Android devices ADB connection.
- Native cross platform support.
- Automate documentation generating process about usage of the library.
- Socket programming for computer networking.

Automate Cv-Resume Publication

Latex / Git action / CI–CD

GIT REPO

2025 – present

- Automate github documents releases.
- Latex language for ducumentation.
- Version controling for different releases.

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.
- Integrating AI-driven natural language processing with database management systems to simplify data interactions and enhance accessibility.
- Support for various database systems, including SQL and NoSQL databases like MongoDB.

Extracurricular Activity

Rajarata university of sri lanka

Online Competition

PIXEL EYE V5.0 - GRAPHIC DESIGN COMPETITION

Dec - 22 - 2023

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

KDE Plasma international free software community

Online Competition

KDE PLASMA 6 WALLPAPER COMPETITION

2023

- 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