

GAGANA METHMAL

DEVOPS ENGINEERING INTERNSHIP

Colombo, Sri Lanka

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Portfolio: <https://iamgaganam.vercel.app/>

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PROFILE SUMMARY

Software Engineering undergraduate with strong expertise in DevOps practices and automation. Proficient in programming with hands-on experience in version control, CI/CD pipelines, and cloud technologies gained through academic projects. Seeking DevOps internship opportunities to contribute to efficient software delivery while developing expertise in modern deployment practices and collaborative development environments.

EDUCATION

BSc. (Hons) Software Engineering

May 2022 – May 2025

University of Plymouth, Plymouth, United Kingdom

Aggregate – 72.24 (3.7 CGPA)

NSBM Green University

Major: Software Development | Minor: Machine Learning

IGCSE and IAL's

Dec 2006 – June 2020

Leeds International School, Pinwatte

British Council, Sri Lanka

IGCSE Science (2018) and IAL Mathematics Stream (2020)

SKILLS

- **Programming Languages:** Python, Bash/Shell, Java, TypeScript, JavaScript, SQL
 - **DevOps:** Git, Docker, Jenkins
 - **Cloud:** AWS (EC2, S3)
 - **Operating Systems:** Linux (basics), Windows
 - **Databases:** MySQL, MongoDB, Firebase
 - **Web Technologies:** RESTful APIs, Nginx, Apache, React.js, Vite, Node.js, Express.js
 - **Others:** JIRA, Trello, Postman
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PROJECTS

1. MoodSync - ML-Powered Mental Health Monitoring System | [2025] (Individual)

Built a mental health monitoring application that analyzes user mood through text and social media, provides personalized support, sends alerts to loved ones, and connects users with professionals.

Technologies: FastAPI, React.js, MongoDB, TypeScript, Python, ML/NLP, Docker, GitHub Actions

GitHub Link: <https://github.com/iamgaganam/MoodSync.git>

2. Scoop Cinema - Cinema Booking System | [2025] (Group)

- Engineered a cinema ticket booking system that integrated real-time seat selection and secure payment processing, leading to a reduction in booking errors by 40% and improving customer satisfaction scores across the board.

Technologies: React.js, Node.js, JavaScript, MongoDB, Redis, Express.js, Docker, GitHub Actions

GitHub Link: <https://github.com/CDevmina/Scoop.git>

3. Augmented Reality Chess - Educational Gaming Platform | [2024] (Group)

- Created an AR chess game that helps beginners learn chess through visual move suggestions, multiplayer capabilities, and cross-platform support for AR headsets and mobile devices.

Technologies: C#, Firebase, Fish-Net API, ARCore, Jenkins

GitHub Link: <https://github.com/theRealUnd3rdog/AR-Chess.git>

4. Highway Entrance Automation – Toll Management IoT Solution | [2024] (Group)

- Developed an automated toll collection system that detects vehicles, reads license plates, processes payments automatically, and provides traffic analytics to authorities.

Technologies: Python, YOLOv8, EasyOCR, PyQt, SQLite, Computer Vision, Raspberry Pi 4

GitHub Link: <https://github.com/CDevmina/IOT.git>

5. Acceleration - Based User Authentication System | [2024] (Group)

- Developed a security system that authenticates users based on their unique walking patterns captured through device motion sensors, achieving 99% accuracy.

Technologies: MATLAB

GitHub Link: https://github.com/theRealUnd3rdog/UserAuth_CW.git

6. Accommodation Locator - Enterprise Web Application | [2024] (Group)

- Built a property rental platform connecting students with landlords, featuring property listings with map visualization, booking system, and warden approval workflow.

Technologies: ASP.NET, C#, SQL, Jenkins, GitHub Actions, Google Maps API

GitHub Link: https://github.com/iamgaganam/Accommodation_Locator-ASP.NET_Web_Application.git

7. Local Community Social Media - Mobile Application | [2024] (Group)

- Developed a social networking app for local communities featuring real-time messaging, post sharing, event creation, and location-based community discovery.

Technologies: Flutter, Firebase (Auth, Realtime DB, Cloud Functions), Dart

GitHub Link: https://github.com/Lakkitha/local_community_app.git

INTERESTS

- DevOps Engineering
- Software Development
- Full Stack Development
- Mobile Application Development

REFERENCES

Mr. Gayan Perera

Senior Lecturer, Faculty Coordinator, NSBM Green University

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I certify that the above-mentioned are true and accurate to the best of my knowledge.