

# GAGANA METHMAL

## DEVOPS ENGINEERING INTERNSHIP

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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.

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## EDUCATION

### BSc. (Hons) Software Engineering

May 2022 – May 2025

University of Plymouth, Plymouth, United Kingdom

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)

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## 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](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](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](https://github.com/Lakkitha/local_community_app.git)

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## INTERESTS

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

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## 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.