

# Madushan Rajendran

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## EDUCATION

**Honours Bachelor of Computer Science (Cloud Computing)**  
*Sheridan College, Oakville*

Jan 2023 – Apr 2027

**DipHe of Computer Science (Cloud Computing)**  
*Staffordshire University, UK*

Sep 2021

- **Awards:** APIIT Sparks Award – Class Topper (2021)

## SKILLS

**Languages & Tools:** Python, Java, JavaScript, C++, SQL, C#, HTML/CSS, Bash, PHP, ServiceNow, MS Office Suite  
**Cloud & DevOps:** AWS, GCP, Azure, Docker, Terraform, Kubernetes, Ansible, Jenkins, GitHub Actions, Control-M  
**Data Science & Analytics:** TensorFlow, Scikit-learn, Pandas, NumPy, Keras, Matplotlib, MLflow  
**Web Technologies:** React.js, Angular, Node.js, .NET Core, Spring Boot, Flask, Git, Jira  
**Databases:** MySQL, MongoDB, Firebase, PostgreSQL

## EXPERIENCE

**Student Ambassador**

Sep 2024 – Apr 2025

*Sheridan College, Oakville*

- Conducted campus tours for prospective students, ensuring accurate communication of college programs and services.
- Handled administrative responsibilities including managing inquiries, updating student lead records, and preparing tailored presentation materials.

**Associate Application Management Engineer**

Apr 2022 – Dec 2022

*London Stock Exchange Group (LSEG), Sri Lanka*

- Provided support to manage BAU of applications, resolved incidents using **ServiceNow**, implemented bug fixes and configured **DataDog** dashboards and alerts reducing downtime of application by **20%**.
- Maintained working relationships with external clients resolving **on-premise** and **cloud** issues related to **API** and **SFTP**.
- Automated specific BAU tasks cutting time by **80%** using **AWS**, **Jenkins**, **Ansible** and **ControlM**.
- Created documentations for everyday activities reducing errors by **90%** in BAU tasks and reports for pre and post update testing.

**Application Management Intern**

Oct 2021 – Mar 2022

*London Stock Exchange Group (LSEG), Sri Lanka*

## PROJECTS

**Smart Inventory System** | *React.js, .NET, MySQL, AWS, TensorFlow*

May 2025

- Working an inventory system for small businesses, reducing stockouts by **40%** through automated AI-based reordering using **Hugging Face Model**, TensorFlow and version controlled with **Git**.
- Deployed on AWS with **Terraform**, integrated **SNS** alerts, and achieved **95%** CI/CD success rate using **CodeBuild**.

**Image Classification with Transfer Learning** | *MobileNetV2, TensorFlow, Docker, MLflow*

Feb 2025

- Developed an image classification system with **87%** classification accuracy using MobileNetV2 and TensorFlow to classify 10 object categories from the CIFAR-10 dataset.
- Designed a scalable and reproducible training pipeline using Docker, allowing seamless deployment in cloud environments with integration of MLflow.

**Weather Monitoring System using IOT** | *Angular.js, Flask, Firebase*

Dec 2024

- Built a real-time weather dashboard with **<2s data latency** using **MQTT**, **Raspberry Pi**, and **OpenWeatherMap API**.
- Enabled farmers to optimize irrigation schedules, improving crop planning efficiency by **30%** through timely insights.

## OTHER ACTIVITIES

**Participant of Sheridan Hackville** | *.NET, Swift, OpenAI, GCP, SQL*

Jan 2025

- Built an **OpenAI-powered iOS app** OpenAI-powered iOS app that predicted grades for desired GPA, helping students plan ahead with **90% accuracy**.
- Led a **3-member team**, coordinating development and integration to deliver a completed prototype within **36 hours**.