Dimasha Fernando

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Education

UNIVERSITY OF SHEFFIELD (UoS) - Sheffield, UK
MComp - Artificial Intelligence and Computer Science with Year in Industry (Predicted 1st)
Relevant Courses: Machines and Intelligence, Data-Driven Computing, Bioinspired Computing, Cognitive & Biomimetic Robotics, Text Processing, Speech Processing, Machine Learning and Adaptive Intelligence, Natural Language Processing,

THE BRITISH SCHOOL IN COLOMBO - Colombo, Sri Lanka (2008 - 2020)
Cambridge A - Levels: A* - Computer Science, A - Mathematics, B - Chemistry, B - Physics
Cambridge IGCSE: 8 A* - C, with an A* in Computer Science and Maths and, a B in English.
Member of the Prefect Cohort, House Captain - Shakespeare House, Secretary of the Computer Science Club

Technical Skills

Programming & Frameworks: Python, React, Java, Kotlin, Ruby on Rails, Node.js, Javascript, HTML5/CSS3, SQL, MongoDB, Haskell
AI & ML: Scikit-learn, PyTorch, TensorFlow, LSTM, LOF, One-Class SVM, HDBSCAN, Isolation Forests, Ensemble Learning, Anomaly Detection, NLP, Statistical Forecasting
Tools & Platforms: Git, Docker, Android Studio, Jetpack Compose, PostgreSQL, Supabase, Firebase
Other: Edge AI, Predictive Maintenance, Web Development, Data Processing, Data Analysis

Professional Experience

Placement AI Developer - Airedale by Modine, Leeds, UK
Jul 2024 - Aug 2025
- Architected and developed an end-to-end Edge AI solution for refrigerant leak detection in industrial chillers, from research and data collection through to model design, validation and deployment.
- Engineered anomaly detection pipelines for real-time predictive maintenance, enhancing the CoolingAI™ product line.
- Collaborated with cross-functional teams to run live experiments and validate models in production-like environments.
- Recognised by senior leadership for pioneering AI solutions and establishing the foundation for future AI innovation within the company.

Web Development Intern - Femstar Holdings (Pvt) Ltd, Colombo, Sri Lanka

Jun 2023 - Sep 2023

- Built and deployed a mobile-responsive website using HTML5, CSS3, and JavaScript.
- Collaborated and coordinated with an external organisation on digital integration projects.
- Researched and drafted a plan to consolidate all holding and subsidiary companies' digital resources onto one server.

IT Assistant - University of Sheffield Management School

Feb 2024 - Apr 2024

- Set up, installed and re - imaged new machines for staff.
- Troubleshoot and resolved various software and network issues.
- Removed data and machines per the University's disposal system.
- Previously employed from Sep 2023 - Dec 2023

Undergraduate Demonstrator - Department of Computer Science, University of Sheffield

Sep 2023 - Dec 2023

- Provided technical guidance in software engineering and Ruby programming.
- Collaborated with the Teaching Assistant and other Undergraduate Demonstrators to ensure that every student receives the highest quality support and assistance
- Supported 100+ students weekly, improving understanding and assignment performance

Projects

Dissertation Project - Statistical Phrase-Based Translation

Sep 2023 - Jun 2024

- Researched state-of-art statistical phrase-based translation methods.
- Developed a Python-based translation algorithm achieving 97.8% translation accuracy on test cases.
- Built a prototype Android application (Java) to evaluate source and translated code validity.

MusicGuru - Web-based Music Practice App

Feb 2024 - Jun 2024

- Collaborated in an 8-person team with client engagement and iterative requirement gathering.
- Conducted regular meetings with our client to identify key requirements for the application
- Developed the application using Ruby on Rails, HAML, and PostgreSQL.
- Led front-end design, delivering UI/UX for a wide range of users.
- Conducted interviews with end user to gather feedback to further refine UI

J.P. Morgan Software Engineering Virtual Experience (Forage)

Sep 2023

- Set up a local dev environment by downloading the necessary files, tools, and dependencies.
- Made changes to the Python and TypeScript files in the repository to make web application output correctly.
- Used JPMorgan Chase's open-source library called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor.

Engineering - You're Hired!

Jan 2022

- Led a 6-person multidisciplinary team on a "Smarter Workspaces" project
- Developed concept, budget, and prototype for "Today", a productivity scheduling app.
- Project awarded "Best Project" in the category.

Leadership & Extracurriculars

Chair, Societies Committee - University of Sheffield

Sep 2021 - Jun 2022

- Led a committee supporting all 300+ student groups at the University of Sheffield
- Managed a budget of £32,500 to facilitate the work of these student groups.
- Chaired all meetings and delegated work equally among committee members, while also supervising and assisting members when needed.
- Oversaw and executed two major campus events.

President, Sri Lankan Society - University of Sheffield

Sep 2021 - Jun 2022

- Led a committee to organise events that celebrated Sri Lankan culture and created a welcoming and safe space for all Sri Lankans attending the University of Sheffield and Sheffield Hallam University.

Sports: Basketball, Cricket, Karate