

DARSHANA RATHNAYAKE

CONTACT DETAILS

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RESEARCH INTERESTS

Areas: **Mobile Systems**, Applied Machine Learning, & Pervasive Sensing

- Architecting end-to-end Machine Learning pipelines for IoT-based mobile/wearable systems.

EDUCATION

Singapore Management University, Singapore 2021 - current
PhD Student in Computer Science

- Advisors: Prof. Archan Misra (SMU)

University of Moratuwa, Sri Lanka 2016 - 2020

BSc. Engineering in Computer Science & Engineering (First-class honours)

- CGPA of 3.75/4.2
- Thesis: A Multimodal Sensor Fusion Framework for Mixed Reality Environment
- Advisors: Prof. Archan Misra (SMU), Dr. Indika Perera (UOM), and Lakmal Meegahapola (EPFL)

WORK EXPERIENCE

SMU-CMU Living Analytics Research Centre, Singapore Feb. 2020 - July. 2021
Research Engineer

- Advisors: Prof. Archan Misra & Dr. Meera Radhakrishnan

Singapore Management University, Singapore Jul. 2018 - Dec. 2018
Research Assistant

- Advisor: Assoc. Prof. CHENG Shih-Fen

PUBLICATIONS

D. Rathnayake, M. Radhakrishnan, I. Hwang, A. Misra, "LILOC: Enabling Precise 3D Localization in Dynamic Indoor Environments using LIDARS", Accepted at IoTDI 2023

M. Radhakrishnan, **D. Rathnayake**, O. K. Han, I. Hwang, A. Misra, "ERICA: Enabling Real-time Mistake Detection & Corrective Feedback for Free-Weights Exercises", Accepted at ACM SenSys 2020

D. Rathnayake, A.K. De Silva, D. Puwakdandawa, L.B. Meegahapola, A. Misra, I. Perera, "Jointly Optimizing Sensing Pipelines for Multimodal Mixed Reality Interactions" IEEE Conference on Mobile Ad-Hoc and Smart Systems (MASS), Delhi, India, 2020.

D. Rathnayake, A. Wickramarachchi, V. Mallawaarachchi, D. Meedeniya, I. Perera, "A Realtime Monitoring Platform for Workflow Subroutines" 2018 18th International Conference on Advances in ICT for Emerging Regions (ICTer), Colombo, Sri Lanka, 2018, pp. 41-47.

ACHIEVEMENTS

Dean's List - University of Moratuwa (For outstanding academic achievement in semester 1, 3, 7, & 8) 2020

Winner - Datathon (Organised by Dialog Axiata in partnership with Microsoft, Huawei & PickMe.) 2019

Winner - Rotaract Idea Challenge (Organized by the Rotaract Club of University of Colombo) 2018

REFERENCES AVAILABLE UPON REQUEST