

THUSHARA R. BANDARA

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SUMMARY

A confident speaker and an inspirational lecturer, able to impart advanced theories and other information to audiences of all levels. I am encouraged by my passion, curiosity, and aspiration as a researcher in Computer Science. Researches in the fields of Computer Vision, Digital Image Processing, Autonomous Driving, and Deep Learning are my current priorities. I have the capacity to take responsibility based on given opportunities and the ability to accept new challenges.

WORK EXPERIENCE

University of Peradeniya, Faculty of Engineering,
Department of Computer Engineering.

Jul 2021 - Present
Temporary Instructor

Conducting tutorial classes and laboratory classes on the following course units:

- CO 326 - Computer Systems Engineering: Industrial Networks - Instructor (2020/2021).
- CO 327 - Operating Systems - Instructor (2020/2021).
- CO 542 - Neural Networks and Fuzzy System - Instructor (2020/2021).
- CO 543 - Image Processing - Instructor (2020/2021).
- CO 544 - Machine Learning and Data Mining - Instructor (2020/2021).

University of Peradeniya,
Postgraduate Institute of Science.

Mar 2019 - Present
Visiting Instructor

Conducting theory classes and laboratory classes on the following course units:

- ESR 514 - Numerical Methods and Algorithms in RS and GIS - Subject Expert & In-charge (2018/2019-2019/2020).
- IT 503 - Programming Laboratory I - Instructor (2019/2020).
- IT 508 - Document Markup Languages - Instructor (2018/2019).

University of Peradeniya, Faculty of Science,
Department of Statistics and Computer Science.

Mar 2019 - Feb 2021
Temporary Lecturer in Computer Science

Conducted theory classes, laboratory classes, and tutorial classes on course units in 100, 200, 300, and 400 levels. The following are the course units that I was mainly responsible for:

- BC 301 - Basic Computing - Instructor & In-charge (2018/2019).
- CS 100 - Computer Applications (Practical) - Instructor & In-charge (2019/2020).
- CS 104 - Structured Oriented Programming Practical - Instructor (2018/2019-2019/2020).
- CS 105 - Object Oriented Programming Practical - Instructor (2018/2019).
- CS 202 - Data Structures Practical - Instructor (2018/2019-2019/2020).
- CS 204 - Programming using DBMS - Instructor (2019/2020).
- CS 303 - Operating System Concepts - Instructor & In-charge (2019/2020).
- CS 307 - Computer Graphics - Instructor & In-charge (2019/2020).
- CS 308 - Computer Graphics Programming - Instructor & In-charge (2018/2019-2019/2020).
- CS 310 - Server-Side Web Programming - Tutor (2019/2020).
- CS 404 - Parallel processing - Tutor (2018/2019).
- CS 413 - Information and Network Security - Tutor (2018/2019).

▫ CS 421 - Project in Computer Science II - Tutor (2019/2020).

University of Peradeniya,
Centre for Distance and Continuing Education.

Jul 2020 - Feb 2021
Visiting Instructor

▫ CLT 2104 - Basic ICT Skills of Advanced Certificate in Laboratory Technology - Co-In-charge (2020).

University of Peradeniya, Faculty of Arts,
Department of Education.

Mar 2019 - Jul 2019
Visiting Instructor

Conduct practical sessions.

▫ EDU 307 - ICT Database Systems (Lab) – Instructor (2018/2019).

FriMi Digital Bank,
Nations Trust Bank PLC, Colombo, Sri Lanka.

Nov 2018 - Feb 2019
Data Analytics Intern

Used advanced analytics techniques to solve business problems: predictive modeling using deep learning, clustering, customer segmentation, decision trees etc.

Accomplished business intelligence: Tableau Desktop, Tableau Bridge, and Tableau online platforms.

RESEARCH EXPERIENCE

December 2018 - Final year student developed an Autoencoder based Image Compression Algorithm using Deep Learning, Image Processing, and Signal Processing.

EDUCATION

University of Peradeniya, Faculty of Engineering,
Centre for Engineering Research and Postgraduate Studies.
M.Phil. in Computer Engineering (Reading).
Research Areas - Computer Vision | Image Processing | Deep Learning.

Nov 2020 - Nov 2022

University of Peradeniya, Faculty of Science,
Department of Statistics and Computer Science.
B.Sc. in Computer Science (Special) Honors.
Second Class Upper | Computer Science GPA - 3.63/4.00 | Overall GPA - 3.46/4.00.
Subjects - Computer Science | Mathematics | Physics.

Jan 2015 - Dec 2018

Kingswood College Kandy.
GCE Advanced Level Examination.
Combined Mathematics | Chemistry | Physics.

Aug 2013

GCE Ordinary Level Examination.

Dec 2009

ACTIVITIES

Member of the Organizing Committee of the Postgraduate Institute of Science Research Congress (27th and 28th Nov 2020).

Member of the Organizing Committee of the International Conference on Environmental and Medical Statistics (ICEMS) 2020, conducted by the Postgraduate Institute of Science, University of Peradeniya, Sri Lanka (9th and 10th Jan 2020).

Resource person for the short courses on Database Management, organized for UNDP project on “Ensuring global environmental concerns and best practices mainstreamed in the rapid development process of Sri Lanka through improved information management”, conducted by the Postgraduate Institute of Science (2019).

Member of the Organizing Committee of the Science Industry Day 2019, Faculty of Science, University of Peradeniya, Sri Lanka (20th Sept 2019).

Member of the Organizing Committee of the Opening Ceremony of the New Statistics and Computer Science Building (10th Jun 2019).

Member of the Organizing Committee of the Faculty Congress (10th May 2019).

STRENGTHS

Programming Languages	C, C++, CSS, HTML, Java, JavaScript, MATLAB, PHP, Python (Keras, Matplotlib, Numpy, OpenCV, Pandas, Pillow, PyTorch, Scikit-image, Scikit-learn, Tensorflow, Theano, Tkinter), R (Base, Rshiny), SQL.
Frameworks	Laravel (PHP), Spring MVC (Java), Django (Python), Flask (Python).
Applications	Anaconda Distribution, Android Studio, Bash, Blender, CARLA, Cygwin, Git, iMovie, MySQL, MS Office Package, RStudio.
Skills	Communicative, Organization skills, Self-learning, Teamwork.
Professional Language Proficiency	English, Sinhala.

PEER-REVIEWED (PR) WORK

G.G.H.M.T.R. Bandara and R. Siyambalapitiya, "Deep Autoencoder-based Image Compression using Multi-layer Perceptrons." International Journal of Soft Computing and Engineering (IJSCE) Volume-9 Issue-6. On-line: (Mar 2020). [Link](#).

NON-PEER-REVIEWED (NPR) WORK

[Atheneum](#) is an API which provides a mechanism for book enthusiasts to get information about their books of interest (Apr 2020).

[GPS Distance Calc](#) to calculate the actual distance between two geographical coordinates (Jan 2020).

[Personal Website](#) developed and hosted (Oct 2019).

[Analysis](#) based on Boston crimes data from Kaggle (Oct 2019).

[Research Entry](#) is a Research Paper Management System developed to store publications and help researchers to engage with events and news related to their interest (Dec 2017).

CERTIFICATIONS

Introduction to Self-Driving Cars

Course offered by University of Toronto on Coursera [Certificate](#) (Nov 2020).

Successful Negotiation: Essential Strategies and Skills

Course offered by University of Michigan on Coursera [Certificate](#) (Jul 2020).

Deep Learning Specialization

Course offered by deeplearning.ai on Coursera [Certificate](#) (May 2020).

PERSONAL

Confident Speaker. Researcher. Married. 28 years. Male.