RAMRAJ CHANDRADEVAN

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EDUCATION

BSc.(Hons) in Electronic and Telecommunication Engineering Nov 2014 - Dec 2018
University of Moratuwa, Sri Lanka, GPA: 3.86/4.20 GRE: Q-162 V-145 AW-3.0, TOEFL: 100/120

INTERNSHIPS/TRAINING

CooperLab, Emory University Atlanta, GA Jun 2017 - Dec 2017
Undergraduate Research Intern, Department of Biomedical Informatics http://cancerdata.io

Foysonis WMS Carry, NC Jul 2016 - Apr 2017
Software Developer Intern (Part Time) http://foysonis.com

COURSES/PROGRAMS

Skyline Aviation - Private Pilot Licensing (PPL) Ratmalana, Sri Lanka Jan 2016 - Jun 2017
Successfully completed CAASL ground examinations.
Completed my first solo flight on April, 2016

Wake Tech Community College Raleigh, NC May 2014 - Jul 2014
Completed summer EFL (English as a Foreign Language) course

PROJECTS

WBC Cell Detection and Classification Mar 2018 - Nov 2018
Final Year Project

- White blood cell classification into 12 types.
- Tight bounding box prediction around white blood cells.
- Classification following detection (system integration into HistomicsTK).

Implementation of TFSurvivalNet (Tensorflow Version of SurvivalNet) Aug 2017 - Nov 2017
CooperLab Intern Project - https://github.com/CancerDataScience/TFSurvivalNet

- Implemented Docker container for SurvivalNet and documented.
- Converted completely to a new project package using TensorFlow-Slim.

Diabetic Neuropathy Ulcer Monitoring Apr 2018 - Dec 2018
Major Project

- Developed a thermal image capturing hardware system.
- Created a cloud-based content management system.
- Applied imaging algorithms and analysis.

Classifying Alzheimer's Patients Using Word Fluency Data Jun 2018 - Nov 2018
Co-author Project

- Applied deep learning and graph theory to classify Alzheimer's status.
- Completed the analysis using different data and class combinations.

Intelligent Scissors Nov 2016 - Dec 2016
Bonus Points During Coursework

- User-interactive image segmentation tool implemented in MATLAB.
- Applied Dijkstra's algorithm and link cost estimation with edge detection.

Battleship Game Board Development Jan 2016 - Mar 2016
Semester Competitive Project - **first place**

- Used PIC microcontroller to physically design the competitor system.
- Gaming algorithm was coded in mikroC.
- System was interconnected with a server engine to play a Battleship game.

Processor Design and Implementation using FPGA Mar 2017 - May 2017
Semester Group Project

- Built using Verilog HDL for image processing applications.

Design of Maze Solving and Object Carrying Robot Apr 2016 - Jun 2016
Semester Group Project

- A fully autonomous robot to recognize and carry objects in the shortest possible time.

SKILLS/ INTERESTS

Fields	Machine Learning, Robotics, NLP, Web Development
Languages	Python, R, Java, C++, PHP, JavaScript
Machine Learning	TensorFlow, PyTorch, Keras, Theano
Frameworks	AngularJS, ITK, 3D Slicer
Databases	MySQL, MongoDB
Softwares	MATLAB, InkSpace, SolidWorks, OrCAD, Xilinx ISE, MikroC
IDEs	NetBeans, IntelliJ, Visual Studio, RStudio, Android Studio, Xcode
Tools	Git, Docker

AWARDS/ACHIEVEMENTS

Dean's List Faculty of Engineering, University of Moratuwa, Sri Lanka - Semesters 1, 3, and 5
SAT Subject Tests (Perfect Scores) May 2014
Physics - 800/800, Mathematics - 800/800
Super Merit Pass in G.C.E A/L Examinations Sri Lanka Aug 2013
Received 3A distinctions (Island rank - 42)
Honored by Presidential Award Sri Lanka Apr 2011
Excellent performance in G.C.E. O/L Examinations (District rank - 3)
IEEEXtreme 10.0 Coding competition Oct 2016
World rank - 289

PUBLICATIONS

Early Experience in Developing a Machine-Learning and Digital Pathology Approach to Automate Bone Marrow Differential Counts
Oral presentation at ACLPS 2018

Ramraj C, Ahmed A. A, Bradley R. D, Nilakshan K, Mohamed A, David A. G, Lee A.D. C, and David L. J. Using Digital Pathology and Machine Learning to Automate Bone Marrow Aspirate Differential Counts: Promising Initial Results with Cell Detection and Classification of Benign Bone Marrow Cells. *Modern Pathology.* 2018. (available as manuscript).