

Dasun Srimal Athukorala

Curriculum Vitae

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 Google Scholar

Research Interests

Machine Learning, Deep Learning, Generative AI, Game Theory, Cloud Computing

Education

Florida International University 	Aug 2015 – Aug 2016 Miami, USA
Postgraduate Diploma	
<ul style="list-style-type: none">• Major: Electrical & Computer Engineering• Advised by: Prof. Ismail Guvenc , Prof. Walid Saad , Prof. Mehdi Bennis • Courses: Machine Learning, Random Signal Principles, Signal Estimation Theory, Signal Detection Theory, LTE, Wireless Digital Communication, Research	
University of Moratuwa 	Jun 2008 – Apr 2013
Bachelor of Science (BSc) in Engineering with Honours	Katubedda, Sri Lanka
<ul style="list-style-type: none">• Major: Electronics & Telecommunication Engineering• Minor: Mathematics• Advised by: Dr. Ajith Pasqual , Prof. Rohan Munasinghe 	

Research Experience

Graduate Research Assistant	Aug 2015 – Aug 2016 Miami, USA
Department of Electrical & Computer Engineering, Florida International University	
<ul style="list-style-type: none">• Research Area: Application of reinforcement learning and game theory for spectrum sharing, LTE in Unlicensed Spectrum 	
Undergraduate Researcher	Sep 2011 – Dec 2012
Department of Electronic & Telecommunications Engineering, University of Moratuwa	Katubedda, Sri Lanka
<ul style="list-style-type: none">• Research Area: V2X Communications• Thesis Topic: IEEE WAVE (802.11p/1609.x) based adaptive traffic light control system for a four way junction using vehicle to vehicle (V2V) communication 	

Professional Experience

Founder & Lead Lecturer	May 2022 – present Colombo, Sri Lanka
NirvanaClouds Academy 	
Developed courses from scratch, crafted the curriculum, delivered lectures, created labs, published content online, and managed industry partnerships.	
Founder/CEO & Chief Architect	Oct 2020 – present Colombo, Sri Lanka
NirvanaClouds 	
Oversaw the development of cloud-native software systems for SMEs, specializing in cost-effective solutions. As founder, facilitated team building, strategic planning, and partnership establishment.	
Founder/CEO & CTO	Nov 2018 – Sep 2020 Singapore
XellMart 	
Led market research, product development, financing, team building, sales, and marketing. Developed the MVP as CTO, overseeing algorithm design, system architecture, and full-stack web development.	

Independent Learning Jan 2017 – Oct 2018
Self-taught in Cloud Computing & Building Tech Startups
Mastered both Amazon Web Service (AWS)  and Google Cloud Platform (GCP)  , and learned to build advanced cloud native software applications.

Engineer - Radio Access Network Feb 2013 – Jul 2015 | Colombo, Sri Lanka
Sri Lanka Telecom-Mobitel 

Managed a wide array of tasks involving planning, design, and testing of Radio Access Network (RAN), encompassing LTE and WiFi technologies. Led the end-to-end deployment of WiFi sites with LTE backhauling.

Engineering Intern Feb 2011 – Aug 2011
Sri Lanka Telecom 

Obtained experience in CDMA, International Transmission and Switching.

Teaching Experience

AI-Powered Python Programming: Enhancing Code with ChatGPT Jul 2023 – present | Sri Lanka
Lecturer, NirvanaClouds Academy

Cloud Software Development  Apr 2023 – Jul 2023 | Sri Lanka
Lecturer, NirvanaClouds Academy

Enterprise Cloud & Distributed Web Applications  Jul 2022 – Feb 2023 | UK
Lecturer, Staffordshire University

Enterprise Cloud and Infrastructure Automation  Mar 2022 – Oct 2022 | UK
Lecturer, Staffordshire University

Operating Systems and Web Development  Mar 2022 – Feb 2023 | UK
Lecturer, Staffordshire University

Publications

Regret based learning for UAV assisted LTE-U/WiFi public safety networks  Dec 2016
IEEE Global Communications Conference (GLOBECOM)
D. Athukoralege, I. Guvenc, W. Saad, and M. Bennis

IEEE WAVE (802.11P/1609.X) based adaptive traffic control system for a four way junction using vehicle to vehicle (V2V) communication  Apr 2013
B.Sc. Dissertation, University of Moratuwa
D. Athukoralege, K. Sirimanna, L. Rupananda, A. Pasqual

Grants

Pervasive Spectrum Sharing for Public Safety Communications, NSF  2015 – 2016 | USA
Grant numbers AST-1506297, ACI-1541105

My research work was supported in part by above NSF grants.

Research Assistantship Aug 2015 – Aug 2016 | Miami, USA
Florida International University

Offered by Prof. Ismail Guvenc  , which included a stipend and a tuition waiver.

Professor C.R. Kulathilaka Scholarship 2008 | Sri Lanka
Department of Public Trustee

A scholarship for achieving the highest score in Pure Mathematics in the university placement exam (1st place out of 23,909 candidates).

Dialog Merit Scholarship Program ↗
Dialog Axiata PLC and University Grants Commission

2008 – 2012 | Sri Lanka

48-month funding scholarship for the best student in the physical science stream in the university placement exam.

Mahapola Merit Scholarship
Sri Lankan Government

2008 – 2012 | Sri Lanka

A scholarship for students with the highest aggregate score in the university placement exam to pursue an undergraduate degree in engineering.

Awards

Spectrum-Sharing Radio Contest (Spectrum-ShaRC) -

Nov 2015

Phase1 ↗

Bradley Department of Electrical and Computer Engineering, Virginia Tech, Blacksburg, VA.

A PHY layer design contest for the implementation of cognitive engines (CEs) using C++. I led the Florida International University team, which obtained fourth place out of 18 universities.

The Dean's List

2013

Faculty of Engineering, University of Moratuwa

Ranked 22nd in Sri Lanka (top 0.1%) in the GCE

Dec 2007

Advanced Levels with distinctions ↗

Sri Lankan Government

Obtained the highest distinctions in Mathematics, Physics, and Chemistry.

Skills

- Languages: Python, JavaScript, HTML/CSS, Bash, SQL, C++
- Frameworks: PyTorch, NumPy, Tensorflow, scikit-learn, Elasticsearch
- DevOps: Docker, Kubernetes, Google Cloud, AWS, VMware, Continuous Integration
- Misc: Unix, shell, git, vim, LaTeX
- Advanced: API Design & Development, Full Stack Web Development, Algorithms and Data Structures, Numerical Optimization Methods, Machine Learning

Projects

Project Flux , Singapore ↗

Sep 2021 – Dec 2021

(As the Chief Architect of NirvanaClouds)

Developed an interactive web portal for one of our Singapore clients, which can be used to discover COVID-19 test requirements, quarantine protocols, and entry restrictions for all 230+ countries worldwide during the COVID-19 pandemic period.

An optimal jamming power allocation strategy for localization in wireless networks

Jan 2016 – Mar 2016

Florida International University, Miami, FL

Developing a mobile robot for Robot Design and Competition

Sep 2009 – Dec 2009

University of Moratuwa, Katubedda, Sri Lanka.

Student Mentorship

Software Engineering Trainer and Mentor ↗
NirvanaClouds

Oct 2020 – present | Colombo, Sri Lanka

Conducted training sessions for software engineering trainees/interns, covering Software Engineering Principles, Cloud Computing Paradigms, Production-level API development, and DevOps/CI-CD processes.