

Dasun Srimal Athukorala

Curriculum Vitae

✉ dasuna.me [in](#) LinkedIn ✉ dasun@nirvanaclouds.com ☎ (+94) 777 387 643 🌐 dasuna
🔍 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

- **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

- **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

- 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

- 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 [↗](#)

Colombo, Sri Lanka

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

Web Development and Operating Systems [↗](#)

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. Athukoralage, 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. Athukoralage, 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 [↗](#)

2008 – 2012 | Sri Lanka

Dialog Axiata PLC and University Grants Commission

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

Mahapola Merit Scholarship

2008 – 2012 | Sri Lanka

Sri Lankan Government

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 [↗](#)

Oct 2020 – present | Colombo, Sri Lanka

NirvanaClouds

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