Sundar Anand | CV

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Contact Information

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Education

Carnegie Mellon University, Pittsburgh — **Incoming Grad Student**
MS in Electrical and Computer Engineering — **May 2022**

Vellore Institute of Technology, Chennai — **GPA: 8.83/10**
B. Tech in Electronics and Computer Engineering — **June 2020**

Work Experience

Research Assistant, **AthleTech Lab at Carnegie Mellon** — **Jan 2021 - Present**

Data Engineering, **Ensemble Energy** — **Jan 2020 – Jan 2021**

Research Internship, **National University of Singapore** — **May 2019 – July 2019**

Journal Publications

Karthik, R., M. Hariharan, Sundar Anand, Priyanka Mathikshara, Annie Johnson, and R. Menaka. **"Attention embedded residual CNN for disease detection in tomato leaves."** *Applied Soft Computing* 86 (2020): 105933. (Impact factor: 5.472)
(https://www.sciencedirect.com/science/article/pii/S1568494619307148?dgcid=coauthor)

Karthik, R., R. Menaka, Annie Johnson, and Sundar Anand. **"Neuroimaging and Deep Learning for Brain Stroke Detection-A Review of Recent Advancements and Future Prospects."** Computer Methods and Programs in Biomedicine (2020): 105728. (Impact factor: 3.632)
(https://www.sciencedirect.com/science/article/abs/pii/S0169260720315613)

Springer Biomedical Engineering Letters (Impact factor: 1.6) (Under Review)
Performance Evaluation of Deep Learning Models for COVID Detection from CT images

IEEE Communication Letters (Under Review)
Multi-Path Based Privacy Leakage Avoidance Framework for IP Cameras

Conference Publications

Anand, Sundar, et al. **"Real-time GPS tracking using serverless architecture and ARM processor."** 2019 11th International Conference on Communication Systems & Networks (COMSNETS). IEEE, 2019.
(https://ieeexplore.ieee.org/abstract/document/8711273)

Anand, Sundar, et al. **"Low Power Real Time GPS Tracking Enabled with RTOS and Serverless Architecture."** 2019 IEEE 4th International Conference on Computer and Communication Systems (ICCCS). IEEE, 2019.
(https://ieeexplore.ieee.org/abstract/document/8821738)

Anand, Sundar, and T. Jayavignesh. **"An Efficient Mask Reduction Strategy to Optimize Storage and Computational Complexity in Routing Table Lookups."** 2019 IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT). IEEE, 2019.
(https://ieeexplore.ieee.org/abstract/document/8868972)

Anand, Sundar, et al. **"Image-Based Smart Surveillance and Remote Door Lock Switching System for Homes"** 2019 Elsevier INTERNATIONAL CONFERENCE ON RECENT TRENDS IN ADVANCED COMPUTING 2019, ICRTAC 2019
(https://www.sciencedirect.com/science/article/pii/S1877050920300648?via%3Dihub)

Awards and Honors

Organizer, COMSNETS (Flagship Conference of India) — **2019**
I was selected to organize and attend the flagship conference of the country, India, in the field of Networks - ComsNets (Communication Networks). I was one among the chosen 12 students around the globe to attend the conference ComNets with full scholarship from logistics to food and stay

Winner of Hackathon, ACM Student Chapter & Mozilla — **2018**
Won the first place at Hackathon conducted by Mozilla and ACM student chapter for programming an automated smart security system and a criminal tracking system for the private and public sector.

Winner of Mech-A-Tron-A-Thon, Valeo — **2018**
Won the Mech-A-Tron-A-Thon for building an AI enabled cooling technology for high voltage conversion (58V to 42V)

Winner of HachkHub, IEEE — **2019**
Won 3rd place at Hackhub hackathon by programming a Machine Learning model to predict and alert public on Earthquakes

Best project award, Vellore Institute of Technology — **2019**
Won the best project award for developing a GPS system with serverless and microservices architecture

Program Representative, Vellore Institute of Technology — **2018 - 2019**
Appointed as the program representative for Electronics and Computer Engineering.

Teaching Assistant, Vellore Institute of Technology — **2018**
Teaching Assistant – Data Structures and Algorithms

Organizer of the Signature event, Vellore Institute of Technology — **2019**
NFS AQUA - Participants are supposed to make their own RC boat and race it against unforgiving barriers.

Skills

General Programming: C/C++, Java, Python
Machine Learning: R, MATLAB, Python (for ML)
Deep Learning: Keras, TensorFlow, Neural Networks, Computer Vision, CUDA
Cloud: Amazon Web Services, Google Cloud Platform, Microsoft Azure
Software host: Docker Container, GitHub
Web Development: HTML & CSS, JavaScript, ASP .NET, C#, SQL, NoSQL, NodeJS

Hobby Projects

Airborne (Gesture based cognitive system)**,** 2019
See more at: https://www.sundaranand.com/airborne

Multi-Path Enabled Privacy Breach Mitigation for IP Cameras, 2019
See more at: https://www.sundaranand.com/national-university-of-singapore

SmarTrack (GPS Tracker), 2017
See more at: https://www.sundaranand.com/smartrack

Networking Smart Security, 2018
See more at: https://www.sundaranand.com/networking-smart-security

Infestation Detector for plant leaves, 2019
See more at: https://www.sundaranand.com/infestation-detector

Automated Car Pooling System, 2018
See more at: https://www.sundaranand.com/shlight-smart-headlight

"Let's offer solutions that **raise our life** above the expected"