

Aravind Prasad Sridharan

Phone: +91 9884612715
Email: raja.avi@gmail.com
Date of Birth: 17.09.1990
LinkedIn: [linkedin.com/in/aravindprasads](https://www.linkedin.com/in/aravindprasads)
GitHub: github.com/aravindprasad90



Career Summary

- 8+ years of Professional Experience in Software Development in DELL R&D.
- Published 5 Patents, 8 IETF Internet-Drafts and 2 Springer publications.
- Certified Scrum Master, [52915208011865](https://www.scrum.org/certification/52915208011865).
- Extensive experience in C, C++, Python, Linux, Git with good knowledge of Data Structures, Algorithms and Software design.
- Developed Web Apps using Flask, Django and PHP as personal projects.
- Contributing regularly to Open-source projects like [Open vSwitch \(OVS\)](https://openvswitch.org/), [Radcli](https://github.com/FreeRADIUS/radcli), [Tcpdump](https://github.com/Tcpdump/tcpdump), [FreeRADIUS](https://github.com/FreeRADIUS/libradius) and [Libradius](https://github.com/FreeRADIUS/libradius).
- Regularly solving programming challenges and contests in Leetcode, Hackerrank, Topcoder and Codingbat.
- All Star Badges in Hackerrank ([hackerrank.com/aravindprasad](https://www.hackerrank.com/aravindprasad)) and Codingbat Python ([codingbat.com/aravindprasad](https://www.codingbat.com/aravindprasad)).
- Contributed to RADIUS Wiki Page ([wikipedia.org/wiki/RADIUS](https://www.wikipedia.org/wiki/RADIUS)) and continuing to contribute to other Wiki pages.

Work Experience

DELL R&D Team

05/2011 – Present

- Developed Applications in C, C++ and Python and also used Opensource off-the-shelf software like [Scapy](https://github.com/scapy/scapy), [Glib](https://github.com/FreeRADIUS/glib), RADIUS libraries [Radcli](https://github.com/FreeRADIUS/radcli) and [Libradius](https://github.com/FreeRADIUS/libradius) wherever applicable during application development.
- Developed the SDN OpenFlow support on top of [Open vSwitch \(OVS\)](https://openvswitch.org/) open-source codebase.
- Delivered the standalone RADIUS Client Application developed using the opensource codebases- [Radcli](https://github.com/FreeRADIUS/radcli) and [Libradius](https://github.com/FreeRADIUS/libradius).
- Designed, developed multiple linux based applications from scratch like 802.1x, Private Vlans ([RFC5517](https://www.rfc-editor.org/rfc/rfc5517)), ISIS and OSPF in DELL OS10 product.
- Initiated, spearheaded and transformed the entire application codebase to C++ and Python from C which greatly improved the maintainability and assisted in faster development and enhancements on the product. This effort triggered similar code transformations across various application codebases in DELL.

Education

- | | | |
|--|---------|-------------|
| ▪ M.Tech, Software Systems, BITS PILANI, India | 9.69/10 | 2013 - 2015 |
| ▪ B.Tech, Information Technology, MIT Anna University, India | 8.83/10 | 2007 - 2011 |

Patents

- | | |
|--|--------------|
| ▪ Handling of Route Installation Failures
(patents.google.com/patent/US9794114B2/en) | US9794114B2 |
| ▪ Control message exchange optimizations | US 16/290626 |
| ▪ Port-based link selection in Spanning Tree application | US 16/290556 |
| ▪ Bridge-based link selection in Spanning Tree application | US 16/355181 |
| ▪ Trust based Power rationing for POE devices | US 16/705722 |

IETF Internet Drafts

- RADIUS End-to-end Security tools.ietf.org/html/draft-aravind-radext-endtoend-attribute-security-00
- RADIUS Message Bundling tools.ietf.org/html/draft-aravind-radext-message-bundling-00
- RADIUS Extended Identifier Attribute tools.ietf.org/html/draft-aravind-radext-extended-identifier-attribute-00
- RADIUS Attribute Security tools.ietf.org/html/draft-aravind-radext-attribute-security-00
- ISIS Reason TLVs tools.ietf.org/html/draft-aravind-isis-reason-tlv-00
- Data Confidentiality in IS-IS tools.ietf.org/html/draft-aravind-isis-confidentiality-data-00
- TCP Connection Failure Notifications tools.ietf.org/html/draft-aravind-tcpm-lively-failure-notifications-00
- MPTCP sub-flows using Traceflow tools.ietf.org/html/draft-aravind-mptcp-optimized-subflows-00

Opensource Contributions

Enhanced functionalities, added TCP and Namespace feature support, fixed functional issues in RADIUS Repos and added introduced informative dump-messages for EAP within RADIUS in Tcpcdump repo.

- Radcli github.com/radcli/radcli/commits?author=aravindprasad90 (10 contributions)
- Open vSwitch(OVS) mail.openvswitch.org/pipermail/ovs-git/2019-April/023012.html
- FreeRADIUS Client github.com/FreeRADIUS/freeradius-client/pull/64
- Tcpcdump <https://github.com/the-tcpdump-group/tcpdump/pull/698>
- Libradius aravindprasad90.github.io/libradius-linux-TCP-Support/

Personal Projects

- **Code Review Tool for C and H files** aravindprasad90.github.io/Code-review-tool-for-.c-.h-/
 - Developed using Python for DELL Hackathon. Features include Git Support, Manual File Inputs and XML based Test support.
- **Web Apps**
 - **Stock-value-changes Notifications App**
 - Deployed at <https://stock-notify-app.herokuapp.com/>
 - With Flask and SQL <https://github.com/aravindprasad90/Stock-app-flask-sql>
 - With Flask and Files-DB <https://github.com/aravindprasad90/Stock-Notify-App>
 - **Weather App**
 - Deployed at <https://aravindprasad.pythonanywhere.com/>
 - With Django and MySQL <https://github.com/aravindprasad90/weather-webapp-django>
 - With Flask and Files-DB <https://github.com/aravindprasad90/Flask-weather-app>
 - With PHP and MySQL <https://github.com/aravindprasad90/weather-app-php-sql>

Springer Journal Publications

- Cognitive QOS Maintenance in WLAN link.springer.com/chapter/10.1007/978-3-642-22543-7_27
- Cryptographic scheme for Encryption/Decryption link.springer.com/chapter/10.1007/978-3-642-27308-7_5