ARAVIND PRASAD S

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SUMMARY
- 9+ years of Software Development Experience at DELL R&D.
- Published 5 Patents, 8 IETF Internet-Drafts and 2 Springer Journal Publications.
- Experienced in Containers, Dockers, Kubernetes(K8s), Micro-services, Git and deployed multiple Cloud Native Apps.
- Developed Production grade applications with C, C++, Python and on top of Linux based OS.
- Deployed Web Apps using Flask, Django and PHP as personal projects.
- Contributing regularly to Open-source projects like Open vSwitch (OVS), Radcli, Tcpdump, FreeRADIUS and Libradius.
- Regularly attending Programming contests in Hackerrank, Topcoder, SPOJ and Codingbat.
- All Star Badges in Hackerrank (hackerrank.com/aravindprasad) and Codingbat Python (codingbat.com/aravindprasad).
- Contributed to RADIUS Wiki Page (wikipedia.org/wiki/RADIUS) and continuing to contribute to other Wiki pages.

EDUCATION
- M.Tech, BITS PILANI, 9.69/10 (2015)   B.Tech, Information Technology, MIT Anna University, 8.83/10 (2011).

PROFESSIONAL EXPERIENCE
Working at **DELL** in **R&D** Team (2011 – Present).
- Currently working on Cloud Native Apps, NFV, Containers, K8S and Virtualization deployments.
- Developed multiple Apps in C, C++ and Python and extensively used Opensource off-the-shelf software.
- Transformed backend of multiple application codebases from C to C++ as part of DELL Codebase standardizations.
- Delivered production level Apps based on Opensource codebases - SDN OpenFlow App based on Open vSwitch (OVS) and RADIUS App based on Radcli and Libradius Codebases.
- Worked on multiple networking protocols like ISIS, OSPF, 802.1x, PVLAN and on proprietary Closed source Code stacks.

PATENTS
- Distributed Handling of Route Installation Failures   US 14/529658
- Port-based link selection in Spanning Tree Protocol   US 16/290556
- Optimized Control message exchange across deployments   US 16/290626
- Bridge-based link selection in Spanning Tree Protocol   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

OPEN SOURCE CONTRIBUTIONS
- 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
- Tcpdump   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
- Novel Cryptographic scheme for Encryption/Decryption   link.springer.com/chapter/10.1007%2F978-3-642-27308-7_5