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| Curriculum Vitae |
| Personal information |  |
| Name | Ajay Surapaneni |
| Address | Flat No-F5, Nalada Arcade, Pragathi Nagar, Hyderabad |
| Telephone(s) | +91-9381746854 DOB: 04-03-1988 |  |  |
| E-mail | ajay.sneni1@gmail.com |
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| Technical Skills &Competences | Python, Ansible, GoLang(Beginner), openstack, istio, Containers, Docker, Kubernetes, Helm charts, AWS, Consul. |
|  Work Experience | **Software Engineer at Kodiak Networks, Bangalore (Jan 2013 – Nov 2016)** **Software Specialist at Nokia India Ltd. (Former Alcatel Lucent) (Nov 2016- Present)** |
| Jan 2013 - Nov 2016 | **PTT-Containerization** is the project which was designed to efficiently utilize the available hardware resources for Kodiak EPTT deployment. Application servers are run inside the docker container’s providing them the dynamic usage of hardware resources. Cost-effective deployment is achieved as the numbers of hardware servers required for application deployment has been reduced from 100’s to 10’s.Key Responsibilities:1. Responsible for writing the Ansible Playbooks for orchestrating the Kodiak PoC Solution.
2. Involved in R&D for developing the docker base image on which the PTT applications are installed as layers.
3. Hands-on in writing the docker files for building images.
4. Responsible for managing the docker private registry.
5. Writing the application specific service files and defining the timeout logic.
6. Implemented a wrapper script which manages the container life cycle, applies the limits on Cgroup subsystems, attaches the host volume and creates a systemd service file for managing the container start/stop using systemctl.
7. Deploying the PTT servers in AWS, HP & Rackspace Private Cloud.
8. Identifying the security group rules and assigning it individual instance groups.
9. Creation of Virtual servers, Pool members and Irule assignment on F5 load balancer.
10. Testing the application layers protocols like SIP, RTP and RTCP.
11. Testing the Subscriber/Group management API’s and reporting the bugs to the developer’s.
12. Preparing and running the automation suites and debugging the logs to find out the issues.
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| Nov-2017 to Present | Common Software Foundation produces software packages that are used internally by Nokia Software. CSF produces a body of software assets to make the building process of these products simpler. This asset is then used by tools external to the CSF in projects that might need analytics platform to perform data analysisKey Responsibilities:1. Implemented the oauth flow support for jupyterhub based on Kong
2. Implemented k8s security policies for jupyterhub & spark
3. Responsible for build and deployment automation for jupyterhub on k8s using pytest
4. Proficient knowledge with Helm charts to manage and release of helm packages including the LCM events.
5. Updated spark driver & executor to have Kubernetes security policy features.
6. Integrating Prometheus & Grafana dashboards for creating metrics and monitoring reports in jupyterhub
7. Focus on integrating cloud native solutions like Istio with internal components
8. Experience with container-based deployments using Docker, working with Docker images, Docker Hub and Docker-registries and Kubernetes.
9. Using tools like Ansible & Terraform infrastructure
10. Wrote python helper scripts to automate backup/restore of applications, analyzing scan reports, service discovery, Kubernetes api related operations etc.,
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| Education & Training  |  |
| 2010-2012 | Master of Science (M.S) in Telecommunication Systems from Blekinge Institute of Technology, Sweden (7.8GPA).Part of bilateral exchange program between Jawaharlal Nehru Technological University and Blekinge Institute of Technology (Sweden). |
|  2005-2009 | B. Tech in Electronics & Communication from TRR College of Engineering, Hyderabad, India(7.3GPA) |