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|  |  | **Baburaj Kallarakkal**  Senior Devops Engineer/Lead   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | |  | 248-229-3794 |  |  |  | | --- | --- | |  | raj.anju@gmail.com | | |  |  | | --- | --- | |  | https://www.linkedin.com/in/baburajkallarakkal/ | |   ****Senior Devops Engineer**** at Apple, responsible for the leadership of a portfolio of Devops(CI/CD) tooling infrastructure for Corporate Systems with an overall experience of 19+ years in ****Information Technology****.  Extremely passionate, enabling the enablers by designing, scripting (****Python****) and implementing ****creative**** and ****scalable**** solutions on ****globally distributed technologies****, made a real impact resulting in cost savings (96k+ annual) and brought ****quantitative**** ****efficiency**** by driving and bringing down production deployment run times from ****hours to under minutes****.  Impulse to seek and explore emerging technologies, made a career progression from ****Java Programmer to**** ****Database Administrator**** and as a ****System Administrator (Linux) to SRE (Edge/Networking )**** with Oracle ****Cloud**** andfinally landing into ****DevOps.****  Always inquisitive about Networking(Internet Routing/BGP/ASN), Cloud, Linux and Python.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | **Work History**   |  |  | | --- | --- | | **2019-01 - Current** | Senior Devops Engineer/Team Lead[AWS Certified]  *Apple Inc, Austin,Texas*   * Automated ****Elastic Search re-indexing**** ****using Python**** bringing substantial improvement in development cycles. * Automated Life Cycle Management of Certificates using Python. * Re-engineered systems to bring 72.2% improvement (reduced execution time from 8.2 hours to 1.2 hours) * Engineered and automated systems for seamless migration of all Employee Systems VIPs from Legacy ****DNS**** to ****GSLB****. * Researched and build tools to bring multiple data sources to under one dashboard ****ES/Kibana**** using ****Python/JSON**** and ****REST**** APIs. * Working closely with ****Shield Team**** to help find gaps and address them in (WAF) Web Application Firewall Rules. * Deep dive to identify the gaps in vulnerability scans and engaging AIS to address the high critical CVE's. * Actively running project to move legacy application to ****Kubernetes****. * Worked in Terraform and familiarity on AWS and GCP. * Re-engineered systems to reduce execution times from186mins to under 10mins (Production release). |  |  |  | | --- | --- | | **2015-10 - 2018-12** | Senior SRE (Edge/DNS) [Redhat Certified Engineer]  *Oracle Cloud Computing, Austin, TX*   * Engineered and designed plan to migrate DNS zones to ****Dyn/Akamai**** from Legacy IPC systems backed by Ultra DNS. * Part of rapid response team to triage ****edge cases**** involving DNS latencies(\*wildcards), MTU, Jumbo frames, certificate expirations, Gateway/Routing errors on Overlay Networks, BGP flapping, Firewall issues and ****Database Overloads****. * Designed automations to lock down ****Cloud Regions**** before GA. * Wrote several ansible playbooks to automate GRE,NTP, SIEM, PBRUN, LDAP on Cloud Regions. * Participated in several fire-fights, triaging DNS/Nginx issues to stabilize several Oracle Public Cloud (LBaaS) regions. |  |  |  | | --- | --- | | **2014-01 - 2015-09** | System Administrator (Platform Engineering)  *Oracle Cloud Computing, Austin, TX*   * Worked in ****Platform Engineering Team**** responsible for the IaaS code infrastructure for ****Oracle Cloud Compute (Chef).**** * Responsible for writing ****Chef cookbooks**** for bootstrapping the instances across regions and providing support to the same. * Developed ****Python FAB/****screen ****distributed**** tooling for patching/automation of compute infrastructure. * ****SME for L2 escalations**** for Cloud Services [Messaging, Developer and Data Cloud Services ) ran in Oracle Public Cloud. * ****Discovered critical security bug**** on Cloud Compute platform due to ****duplicate IP address on**** OVS/Exalogic and ZFS servers. * Active contribution in troubleshooting and rolling out fixes using "****ebtables****" (****MAC address layer****) for Dom-U isolation with XEN (vif-\*) scripts to prevent ARP Spoofing and ****NFS hacking****. * Triagingedge-casesacross Cloud Regions involving complex networking issues using ****tcpdumps (MTU/Jumbo Frames)**** |  |  |  | | --- | --- | | **2012-09 - 2013-12** | Cloud SRE [Oracle Database Cloud]  *Oracle Cloud Computing, Austin, TX*   * Developed SOP's via automation using ****Python****(FAB,Chef & Ansible) for L1 support teams. * Automated patching framework using MCollective/Ruby for entire Java Cloud Service. * Automated Dataguard Installations using ****bash/perl scripts**** for faster Exadata Database Cloud Service region setup. * Part of team in building the entire region for Oracle Public Cloud. |  |  |  | | --- | --- | | **2008-01 - 2012-06** | Oracle Systems DBA [Oracle Certified Professional]  *Ford Motor Credit, Dearborn, MI*   * Resolution of numerous production issues involving sub second response times using ****AWR, ADDR**** and advanced monitoring. * Systems DBA for Oracle with ****24 x 7 support of 200+ databases**** with financial critical data. * Uncovered critical bugs (character set issues) due to UTF8/Unicode conversion as part of Asian/European Data Center Consolidation. * Used Oracle's SCN technology to implement a Teradata Standby Database (open sourced article in the blog). * Involved in performance tuning/debugging in all levels - System, SQL, Linux, Database, and Network for application issues.workload. * Developed multithreaded Java Program for performing Load Tests and obtain performance statistics for internal DBA Analysis. |  |  |  | | --- | --- | | **2002-09 - 2007-12** | Teradata DBA [ Teradata Certified DBA]  *Ford Motor Credit, Dearborn, MI*   * Created a home grown Standby DB simulating Oracle's SCN technology * Uncovered critical bugs (character set issues) due to UTF8/Unicode conversion as part of Asian/European Data Center Consolidation * Developed as scalable solution to simulate load tests via Threads, Users, Dynamic SQL's via command line that goes against heterogeneous DB's |  |  |  | | --- | --- | | **2000-05 - 2002-07** | Datawarehouse Developer[Teradata Certified SQL ]  *Metiom, Merck Medco, The Limited, Kalki, New York, NY*   * Worked on multi terabyte systems involving data migrations, data mining, SQL/PLSQL coding and several migration projects involving terabyte of warehouse data at Medco, The Limited and Intellisys. |  |  |  | | --- | --- | | **1999-11 - 2000-05** | Java Programmer [ Sun Certified ]  *Kalki Communication Technologies, Bangalore, India*   * Worked in B2B and PLC projects utilizing J****ava Networking****, Servlets and Core Java Packages. * Implemented Chat Server solutions with ****Java Sockets.**** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | **Skills**   |  |  |  | | --- | --- | --- | |  | |  | | --- | | Databases - Elastic Search, Oracle, Teradata, MySQL | |  |  |  |  |  | | --- | --- | --- | --- | |  | |  |  | | --- | --- | | Programming - Java, Python, Bash, Terraform |  | |  |  |  |  |  | | --- | --- | --- | --- | |  | |  |  | | --- | --- | | Containers - Docker, Kubernetes |  | |  |  |  |  |  | | --- | --- | --- | --- | |  | |  |  | | --- | --- | | Monitoring - Splunk |  | |  |  |  |  |  | | --- | --- | --- | --- | |  | |  |  | | --- | --- | | Routing Layer - Apache, Nginx |  | |  |  |  |  |  | | --- | --- | --- | --- | |  | |  |  | | --- | --- | | CI/CD - Docker, GIT, Ansible |  | |  |  |  |  |  | | --- | --- | --- | --- | |  | |  |  | | --- | --- | | Cloud - Oracle Cloud, AWS (VPC/Networking Topology), EC2, S3 |  | |  |  |  |  |  | | --- | --- | --- | --- | |  | |  |  | | --- | --- | | Networking - DNS,LBR,TCP/IP, BGP, Routing, SSL/TLS |  | |  |  |  |  |  | | --- | --- | --- | --- | |  | |  |  | | --- | --- | | Familiarity - GCP, AWS, Kafka Streaming, MongoDB, Kibana |  | |  |  |  |  |  | | --- | --- | --- | --- | |  | |  |  | | --- | --- | | Linux - Redhat, Oracle |  | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | **Education**   |  |  | | --- | --- | | **2006-01 - 2009-12** | Master of Science: Management Information Systems  *Eastern Michigan University - Ypsilanti, MI* |  |  |  | | --- | --- | | **1995-12 - 1999-12** | Bachelor of Technology  *Government Engineering College - India* | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | **Certifications**   |  |  | | --- | --- | | **2020-02** | AWS Certified Solutions Architect |  |  |  | | --- | --- | | **2018-07** | Red Hat Certified Engineer |  |  |  | | --- | --- | | **2017-12** | Red Hat Certified System Administrator |  |  |  | | --- | --- | | **2007-08** | Oracle Certified Professional |  |  |  | | --- | --- | | **2003-07** | Teradata Certified Administrator |  |  |  | | --- | --- | | **1999-10** | Sun Certified Java Programmer | |  |  |  |  |  | | --- | --- | --- | --- | |  | **Accomplishments**   |  |  | | --- | --- | |  | * Innovated and implemented an automation solution resulting in substantial reduction of resources (144+ scripts deduced to 8) with a recurring savings of 120,000USD * Discovered critical bug in Oracle Cloud Service involving duplicate IP addressing. * Innovated and implemented system improvements to bring in 72% to up to 90% improvements in production deployments (Eg. Run times reduced from 186mins to under 10mins and 8.2hrs to 1.2hrs). * Innovated and contributed an open source solution for Oracle Backups, rolled same internally to achieve 96,000+ storage costs. | |  |  |  |  |  | | --- | --- | --- | --- | |  | **Open Source Contributions**   |  |  | | --- | --- | |  | ****https://sourceforge.net/projects/oraclerman/****  ****( Slide Deck -> http://padmavyuha.blogspot.com/2010/11/oracle-rman-backup-solution-open-source.html )**** | |  |  |  |  |  | | --- | --- | --- | --- | |  | **Blog/Github**   |  |  | | --- | --- | |  | ****http://intercloudzone.com****  ****https://github.com/baburajk**** | | |  |

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