Ronakh Thaikkat

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CONTRIBUTION HIGHLIGHTS

Currently working as a DevOps Engineer developing and maintaining a number of Infrastructure automation and Data-center Virtualization tools and APIs. Passion for setting up HA infrastructure with no downtime, which is part of my daily work - HA environments, CI/CD pipelines, Infrastructure/Configuration as code practices. Moving towards achieving my first RedHat and AWS certifications. Have previously offered technological consultation to develop robust and reliable industrial applications that fortified security and automated strategic decisions through machine learning; Used advanced statistical and machine learning models to create a data cleansing tool that detects anomalies in contextual time-series data; Consistently contributed to the STACKEXCHANGE community and have been constantly ranked in the top 10% (SO) from 2016 - 2018. Interested in DevOps, Linux system adminsistraion, automation, cloud infrastructure and AI.

EXPERIENCE

CURRENT	DevOps Engineer at THE HUT GROUP, UK *Digital Experiences - DevOps* Own and Maintain the internal load-test tool for THG. Set up multiple GCP HA clusters alongside instances that run on our own DCs in the UK - enabling us to hit highest ever 2 Million RPM for the biggest team in the company. My team also maintains the Infrastructure API - the self-service compute resource, configuration and load-balancer creation API. Contributed a significant part to Virtualisation layer automation - resource management of VMware resources. Helped develop an API over DYN traffic director for single click DC fail-over of multiple sites. Help teams set up and manage HA infrastructures and CI/CD pipelines efficiently with zero-downtime deployments.
OCT 2018-MAR 2019	Software Engineer at THE HUT GROUP, UK *Preloved, UK* Worked in a team of 5 that developed and maintained the Preloved ecosystem. My main tasks were around the operations side - setting up Monitoring, logrotate, GOCD pipelines, VM patching and troubleshooting/root-cause analysis tasks. Automated journey monitoring scripts for Preloved which is still used by the team to check the proper functioning of all core journeys. I was a part of project Radiate which involved a data-center migration of the whole ecosystem to enable an active-passive structure.
SUMMER 2017	Summer Intern at PRICOL LTD (PRICOL TECHNOLOGIES), India *Security Analyst and vulnerability assessment* Worked on PROJECT BRETFORD, an Internet of Things application designed for an American locker company. Worked as Application security Intern - Ran several tests, both manual and automated, to discover threat. Traced several vulnerabilities in the application which was reported in detail with their possible fixes. Used tools including *HTCap, SQLMap, Metasploit* and *Wireshark*

Tools, Softwares and Programming Languages

Google cloud platform, vRealize Orchestrator, DYN traffic director, Linux System Administration
Nagios, Graphite, Prometheus, Grafana, Pingdom
Kubernetes, Openstac, Docker, St2
Ansible, Terraform, Packer, Puppet, CI/CD (Spinnaker, Drone, GOCD, Jenkins)
GOlang, Python, C, Shell, ARM Assembly Language, Java
MongoDB, Cassandra - HA deployments

Education

2015 - 2018	B.Sc (Hons) Computer Science, **University of Manchester**, United Kingdom Thesis: "Detection of Outliers in Vehicular Traffic Data" Advisor: Dr. Sandra Sampaio
Modules:	Advanced Algorithms, Machine Learning, Graphics and Image Processing, Data and Documents on Web, Computer Vision, Micro Controllers, Natural Language Processing, AI, Cryptography and Network Security, System Architecture, Processor Micro-architecture
Projects:	Built, tested and Implemented a Stump processor on a FPGA Group of 3 implemented a 7x7 Mancala AI Bot Stendahl Game - Developed and deployed a multi-user, multi-threaded, client-server open source game with a team of 5 members over 12 months

Publication / Projects

Techniques of Anomaly Detection of Contextual Time Series data (UoM archive)
Research based Third year project at The University of Manchester under Dr.Sandra Sampaio
Achieved deep knowledge in areas of Feature Engineering, OCSVM, Unsupervised ANN and other ML algorithms.
Data analytic paper on 'Crimes committed against Women in India'
ISSN:2454-4116, Volume-3, Issue-4, April 2017 Pages 63-64
Paper shows the regions where most crimes against Women happen. It also describes a pattern on how the Women are victimized, based on the age of the victims and their relationship with the person committing the crime

Recognition

Top 10% on StackOverflow between 2016-2017 and 2017-2018
Won fourth place at Capture the Flag by BAE Systems at The University of Manchester
Secured top 5 percentile award given for notable academic competence in higher secondary school

Interests

Professional Interests: Software Engineering, Analytics and Algorithms
Other Interests: Movies, Behavioural Psychology, Mathematics, Music
Societies: MUMS - Manchester University Music society