Vivek Tiwari

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OBJECTIVE

Ever curious learner, uncompromising on quality, go-getter with experience in cloud distributed scale systems looking for challenge to make impactful difference by creating great products. I would love to be a part of team which embraces technical challenges in the realms of cloud computing and distributed systems which encompasses different components e.g Kafka, Cassandra, Replication, Optimization etc

SKILLS

- TECHHNICAL & Languages: Ruby on Rails, Python (Django/Webpy), C, Javascript, Node, React, PHP, Bash, Perl.
 - ♦ Technologies: UNIX, RESTful web services, AWS, Docker/Container/Kubernetes, Kafka, Rspec, Virtualization, CI/CD
 - ♦ Database: MySQL, Sqlite, Postgres, LDAP, Cassandra, Redis
 - ♦ S/W Tools: JIRA, tcpdump/wireshark, Web developer tools, Logstash/Grafana/Kibana, ElasticSearch, Collectd
 - ♦ Version Control: SVN/Git, Clearcase
 - ♦ Misc.: Debugging, Unit Testing, Automation, System Design, Microservices, Distributed System

Work EXPERIENCE

- ♦ Sr Software Developer, RADICLE, (Nov 2021–Present)
- · Working on cool features for hyper growth SaaS platform to help customers come up with a plan to reduce carbon emissions.
- · Identifying, describe, break-down, estimate, prioritize outcomes into technical specifications
- ♦ Sr Software Developer, MOTOROLA SOLUTIONS, (September 2016–Nov 2021)
- · Delivered customer facing critical features while leading team of 3 in a tight schedule e.g. User Authentication, Rate Limiting(Security), Upload Self Signed SSL certificate Licensing features for Access Control Manager (ACM) with RESTful APIs.
- · Dockerized development environment for dev team. Convinced stakeholders to adapt to containerized approach instead of virtualization. Gave tech-talks to dev team and brainstormed on challenges.
- · Improved post analysis for Rspec Automation Framework. Saved 2 days effort per person. Resulted in increased team effort for automation and post analysis.
- Created Application Performance Monitor tool for ACM using Grafana, Logstash, net-data. Helped diagnose issues before customers escalations and reduced escalations upto 20%
- ♦ Software Developer, FORTINET, (May 2014–August 2016)
- · Wrote web application framework for AV signature in house testing. Increased efficiency of AV analysts in post analysis performance of AV signatures and reduced 2 days of effort per
- · Wrote and Deployed high-available web application (Web Filtering) in AWS using Elastic beanstalk. This enabled the team to get acquainted with AWS and use the service as SaaS.

- · Performance improvement of content pattern recognition language database (MySQL) for AV signatures.
- · FortisandBox REST based API testing.
- · Managed and delivered 80% work flow to get FORTINET's FSA (fortisandbox) NSS certified.
- ♦ Software Engineer in Test, PROCERA NETWORKS, (November 2012–April 2014)
- Designed and developed system automation scripts in Python and Bash for cross platforms systems which helped cover lots of platform testing in a day instead of 3 days.
- · Debugged network traffic capture using gulp/tcpdump/wireshark for applications on different devices (iOS, Android, Windows) for testing NAVL's cross platform functionality.
- ♦ System Engineering Intern, BROADCOM, (September 2011–April 2012)
- · Designed and maintained automated scripts(Perl/Tcl) for variety of telecommunication algorithms and system for Broadcom's VoIP software.
- · Set up and configure the entire EMIP (Network Impairment) platform on RedHat Linux OS and invloved in charaterizing the behavior of end point APIs in different network conditions.

Research INTERESTS/ Projects

♦ Hobby Project

- · Built a mobile cell charger designed to be charged while walking using electromechanical concepts . Won certificate of merit for the design concept and prototype.
- · Raspberry Pi Home Automation(A minicomputer with BCM2835 chip)
- ♦ Academic Project
- · Enhanced throughput by 15% compared to regular IEEE 802.11 DCF protocol, in VANET using Frame Size Adaptation, Relay Nodes Optimization and Contention Window adjustment based on the density of vehicles in the network.

EDUCATION \diamond University of Victoria, Victoria, BC, Canada.

MASc, Electrical and Computer Engineering: August 2012.

Master's thesis: Performance Enhancement in Vehicular Ad Hoc Networks with Admission Control and Contention Window Adjustment.

♦ National Institute of Technology, Durgapur, West Bengal, India. B. Tech, Electronics and Communication Engineering: Spring 2009. Bachelors's project: Survey on various congestion control algorithms in Wireless Sensor Networks.

AWARDS/

- ♦ IEEE Journal for Selected Areas in Communication, LACAS: Learning automata based Publications congestion avoidance method in wireless sensor networks for healthcare application, IEEE JSAC special issue on Wireless and Pervasive Communications in HealthcareVol 27, No.4, May 2009.
 - ♦ First best research paper award for research paper titled 'Learning Automata based Congestion Control scheme in Wireless Sensor Networks' at 7th ACS/IEEE AICCSA, Rabat, Morocco, 2009
 - Indian National Maths Olympiad (INMO) 2003: Cleared Ramanujan Mathematics Olympiad as a state ranker and qualified for INMO.
 - ♦ Industry Defined Problem 2007: Awarded merit prize for Dynamic Cell Charger which uses electromechanical concept to charge a mobile phone battery.