Mayank Kumar

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PROFESSIONAL SUMMARY

- 9+ months experience working in an EdTech Startup, developing distributed and scalable Students Interaction platform.
- 3+ years experience in Design, Development and Implementation of Services and Application in Enterprise software, enabling HP Enterprise cloud portfolio.
- Worked on feature development, bug fixes for Cloud software based on open-source **OpenStack** framework.
- Well versed in GIT, a source code management (SCM) system.
- Used Agile methodology to manage rapid development schedules.
- Proven track record of being a quick learner and team-player, for which awarded and recognized multiple times by peers and management.

WORK EXPERIENCE

Intellus Learning Inc. (Macmillan Learning Co.), Bangalore, India   Senior Software Developer

Student Interaction Platform   May 2016 – Present
- Implemented student experience platform to track and analyze progress of student registered across curated contents.
- Worked on performance improvement by implementing in-memory and distributed caching.
- Implemented event tracking to analyze student involvement and retrieve meaningful insights.
- Technology Stack: Python 2.x, MySQL, Django, Caching

Logging Infrastructure   Aug 2016
- Worked on enabling application to have logging infrastructure using ELK clusters.
- Enabled tracking issues easier on distributed production environment.
- Technology Stack: Elasic Search, Logstash, Kibana

Hewlett Packard Enterprise R&D, Bangalore, India   Systems/Software Engineer II

HPE Healthnmon   Oct 2012 – Mar 2014
- Worked as a part of team developing monitoring service for cloud resource.
- Implemented inventory management for ESXi hypervisor using VI SDK using oslo_vmware (then a part of openstack module).
- Technology Stack: Python, vCenter APIs, OpenStack (Compute, Glance, Neutron)

HPE CloudSystem 8.0 and 8.1   Oct 2012 – Mar 2014
- Worked on major refactoring, additional feature implementation on indexer module which was an entry point for all VM lifecycle operation.
- Implemented messaging based event module to generate instances, network, volumes lifecycle operation events using rabbitmq messaging service.
- Worked on feature implementation and bug fixing on OpenStack. Primarily on Nova and Glance image service
- Worked with VMware team to resolve vCenter API issue which was affecting the scale numbers on ESXi hypervisor.
- As an extra initiative, took up responsibility for supporting datacenter/hardware related requirements for the team, which has given me some amount of exposure to switches, HP Blades and Datacenter Manageability Solutions like HPE OneView
- Technology Stack: Python, Rabbitmq Messaging, MySQL, Oslo library, vCenter SDKs, OpenStack, Cloud technologies

HPE CloudSystem 9.0   Apr 2014 – Sep 2015
- Implemented event based auxiliary virtual machine manager using RESTful APIs to setup and configure complete cloud.
- Designed and developed Active/Active High availability solution using Keepalived as failover VIP provider and HAProxy load-balancer.
- Implemented triple-o-image elements to configure various services and its configuring parameters.
- Using oslo_messaging added capability to produce events of complete cloud deployment lifecycle.
- Worked on implementing pre-activation checks using PowerShell and task executor for HyperV onboarding.
- Technology Stack: Python, Shell Scripts, OOO Image Elements, PowerShell, OpenStack, HAproxy, Keepalived, High Availability, Rabbitmq clustering, MySQL Clustering

HPE eon   Oct 2015 – May 2016
- Worked on designing and implementing drivers to extend compute capabilities in a deployed cloud service by exposing REST APIs.
- Drivers extended KVM and ESX compute on-demand capability, using ansible.
- Technology Stack: Python, Pecan, Stevedore, Cliff, MySQL

SKILLS	**Programming:** Python, MySQL, Django, Shell scripting, Sed, LaTex **Operating Systems:** Linux, Windows, Ununtu, hLinux **Other Areas:** Django with Python, RESTful APIs, RabbitMQ messaging, HAProxy, Keepalived, Virtualization and Cloud, Git, Gerrit, Networking, Hypervisors(ESX, KVM, HyperV), Ansible

EDUCATION

Birla Institute of Technology, Mesra, Ranchi

- B.E. in Computer Science & Engineering, **7.63 CGPA**   2008 – 2012

DAV Public School, Dhanbad, Jharkhand

- AISSCE, **91.6%**   2005 – 2007

Indian School of Learning, Dhanbad, Jharkhand

- AISSE, **84.6%**   2004 – 2005

KEY ACADEMIC PROJECTS

Indian Statistical Institute, Kolkata, India

Fuzzy-Distance Function Approach for Multiple Criteria Decision Making   May 2011 – Jul 2011
- In multiple criteria decision making, best alternative is chosen among set of alternatives based on decision makers preference and choices/objectives best satisfied by respective alternatives.
- Proposed an algorithm for MCDM using a combination of fuzzy integral and distance function.
- Calculated distance of criteria from ideal solution for respective alternatives and then applied fuzzy integral and max-min operation to obtain ranking of preference of alternatives

- Mentor: Dr. Prasun Das (SQC & OR Unit)

Birla Institute of Technology, Mesra, Ranchi

Text Extractor   Jan 2012 – Mar 2012
- Designed and developed software in JAVA that can extract text regions from grayscale/RGB Images
- Applied morphological gradient algorithm to label the text regions and separate them
- Designed a user friendly interface for the software using JAVA-GUI

- Mentor: Prof. S.K. Borat

Digital Fuel Rechecking Unit   Oct 2009 – Jan 2010
- Simulated a model which checks the amount of fuel filled in vehicles at petrol bunk
- Basic automobile parts are employed to calculate the difference in amount of fuel filled
- A cheap and innovative model that can be installed in every vehicle and can help preventing fuel theft at bunks

- Mentor: Prof. P.K. Manoharan

SCHOLASTIC ACHEIVEMENTS

- Won Innovation Theme Day quiz: Cloud, organized by HP ESSN India RnD
- Research paper titled "Fuzzy-Distance Function Approach for Multiple Criteria Decision Making" published in International Journal for Quality Research (IJQR), Vol.6, No. 2, 2012, 119-124.
- Won 1st prize (EUREKA 2010-Technical paper presentation event) at Kshitij 2010 Techno-Management Fest of IIT-Kharagpur.
- Secured All India Rank 843 at National Level Science Talent Search Examination, 2006 conducted by Unified Council.
- Secured All India Rank among TOP 50 at 4th National Cyber Olympiad 2004 organized by Science Olympiad Foundation.
- Won Gold Medal on All India Painting Competition 2005 organized by KALANKAN PRAYAS.

EXTRA CURRICULAR ACTIVITIES

- Created **EngineersBloc** as a tool to track all technology related articles.
- Organized the "Youthotsav Career Fest" with a few friends for students highlighting career options after class 12th.
- Started an initiative **iLearnStack** with a few friends to spread awareness about Openstack and help people new to Python, Linux and Cloud/Virtualization, and specially the college students to quickly get bootstrapped on understanding/using Openstack.
- Volunteer for Little Einstein's program of Bhumi, a NGO working towards the holistic development of under-privileged children.
- Loves Painting and playing Cricket.

[*Resume compiled on 2017-03-15 by Mayank*]