

Mayank Kumar

Koramangala, Bangalore-560047
mayankb2k@gmail.com • +91 740 601 4731 • <https://about.me/mayank0107>

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: Elastic Search, Logstash, Kibana
- Hewlett Packard Enterprise R&D, Bangalore, India** Systems/Software Engineer II
HPE Healthmon 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, Ubuntu, 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 <ul style="list-style-type: none"> ▪ B.E. in Computer Science & Engineering, 7.63 CGPA 2008 – 2012 DAV Public School , Dhanbad, Jharkhand <ul style="list-style-type: none"> ▪ AISSCE, 91.6% 2005 – 2007 Indian School of Learning , Dhanbad, Jharkhand <ul style="list-style-type: none"> ▪ AISSE, 84.6% 2004 – 2005 	
KEY ACADEMIC PROJECTS	Indian Statistical Institute , Kolkata, India <i>Fuzzy-Distance Function Approach for Multiple Criteria Decision Making</i> May 2011 – Jul 2011 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> ▪ Mentor: Dr. Prasun Das (SQC & OR Unit) Birla Institute of Technology , Mesra, Ranchi <i>Text Extractor</i> Jan 2012 – Mar 2012 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> ▪ Mentor: Prof. S.K. Borat <i>Digital Fuel Rechecking Unit</i> Oct 2009 – Jan 2010 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> ▪ Mentor: Prof. P.K. Manoharan 	
SCHOLASTIC ACHIEVEMENTS	<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ 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 2017-03-07 by Mayank]