LOGU J

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SUMMARY

- Overall 8+ years of experience primarily on **Python, C programming, Linux and Networking**
- Experience on **RESTful interface development** and consumption of various **RESTful interface**
- Experience on **multiprocessing, multithreading and socket programming**
- Experience on **Celery and WebSocket**
- Experience on **I2C, MQTT, ZeroMQ, RabbitMQ, Apache Qpid and AMQP**
- Hands on knowledge of **TCP/IP stack**
- Experience on **virtualization**, with hands on knowledge of **Docker**, QEMU, KVM, ESxi and LIB-VIRT
- Hands on knowledge of **RHOSP and OpenStack** environment setup
- Hands on knowledge of **HPE synergy, HPE BladeSystem C7000, HPE Moonshot, HPE Edgeline products (EL1000/EL4000/EL300/EL8000), HPE OneView and iLO**
- Experience on **Python module development** and CLI development

WORK EXPERIENCE

Mphasis Limited   Nov 2015-Present
Senior Software Engineer   *Houston/Bangalore*

· Involved in developing Edgeline Infrastructure Manager (EIM)
· Involved in developing HPE edgeline hardware's chassis firmware (Chassis Manager)
· Implemented an utility to integrate CISCO APIC - HPE OneView
· Implemented project BEN (Broker for Enterprise Notification)
· Automated testcases using Robogalaxy Selenium framework
· Implemented following Proof Of Concept

    A simple audit framework to audit testcases executed by multiple testers
    NLP based BOT to answer the queries based on audit framework data
    An UWP based OneView app

HCL Technologies   Jun 2013-Nov 2015
Software Engineer   *Chennai*

· Involved in transforming SCE into vSCE (virtualized Service Control Engine)

Desh Technologies   Jun 2012-Jun 2013
Web Developer   *Erode*

· Implemented JavaScript/jQuery based utilities
· Developed multiple WordPress based business websites

EDUCATION

Master of Computer Applications, **IRTT, Anna University**	2009-2012
B.Sc Computer Science , **KSRCAS, Periyar University**	2006-2009

SKILLS

Development Languages: Python, C, Golang, Shell Scripting, SQL
Tools: Git, Make, GDB, VIM

PROJECTS

EIM (Edgeline Infrastructure Manager) — HPE Houston
Environment: CentOS, Docker, Ansible, Django, MariaDB, RabbitMQ, NGINX, Grommet

· EIM is a virtual appliance to help manage HPE Edgeline and other HPE Converged IoT systems
· Improved dispatcher's(Catching mechanism) performance by 82% and latency by 50%, by completely rewriting it using event based multithreading
· Implemented scalable firmware update with 5x performance improvement(in comparison to existing utility) using celery
· Investigated and implemented WebSocket using Django channels
· Implemented licensing module using AutoPass Java library
· Implemented RESTful and Private API for UI with REDFISH standard
· Investigated and implemented openbox, chromium based console KIOSK mode
· Understood and implemented RabbitMQ based eventing feature, to notify Apache Qpid Broker

Chassis Manager Firmware — HPE Houston
Environment: Ubuntu, Django, SQLite, ZeroMQ, Python, C, Golang, Pyinstaller

· Chassis Manager is a management firmware running on all HPE's edgeline hardware (Ex: Moonshot2, EL300, EL8000)
· Improved API latency by 75%, by completely rewriting blade cache with reduced number of HTTP request
· Improved network stack performance by 2x times, by completely rewriting it using ip utils along with IPv6 support
· Implemented switch firmware update
· Involved in developing CLI, Redfish REST apis and other backend logics

BEN (Broker for Enterprise Notification) — HPE Bangalore
Environment: Flask, SQLite, AMQP

· BEN is a broker between enterprise application and the client, that lets securely push notifications to endpoints via Cloud
· Implemented REST interface and a plugin which interacts with OneView's REST API and RabbitMQ
· Implemented multiprocess subscription manager module that manages active subscription
· Implemented command line utility to list the active subscription details
· Implemented the logic to send push notification through WNS and GCM

OneView-CISCO ACI integration toolkit — HPE Bangalore
Environment: Python

· Implemented a standalone python utility that can generate a report by mapping APIC policies to OneView resources
· Optionally based on the generated report it can auto create the missing resource in OneView

vSCE (virtualized Service Control Engine) — CISCO Chennai
Environment: RedHat, QEMU-KVM, C, C++

· It provides virtualized DPI (Deep Packet Inspection) as a service
· Involved in transforming SCE code base for QEMU-KVM environment and contributed in bug fixing
· Deployed in OpenStack environment using Cisco internal orchestration tool CTCM (Cisco Teleco Cloud Manager)

CERTIFICATES

· **Machine Learning Basic Nanodegree** from **Udacity**
· **Deep Learning Specialization** from **Andrew Ng, Coursera**
· **Master Go (Golang) Programming** from **Andrei Dumitrescu, Udemy**
· **Introduction to Computer Networks** from Stanford online education

AWARDS

- Won HP SBU INNOVATION AWARD for the work on project BEN and App Platform for NextGen products
- Won Mphasis internal Summit Award for proactive work on team