LOGU J

+91-6382484877 ⋄ jjlogu@gmail.com ⋄ github.com/jjlogu ⋄ linkedin.com/in/jjlogu

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 LIBVIRT**
- 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