Piyush Kumar
(Blockchain/Redhat Certified Engineer)

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Carrier Objective

Passionate and result-oriented software professional with expertise in building applications and working with cutting edge technologies. To continuously enhance my skills and experience by getting involved in challenging work environment and utilize them for personal and organizational growth to the best of my ability.

Education

- **Birla Institute Of Technology, Mesra** — Jharkhand, India
  Bachelor degree in Computer Science Engineering CGPA: 8.39/10.0 — *Aug. 2014 – May. 2018*

- **Kendriya Vidyalaya Suratgarh Cantt** — Rajasthan, India
  All India Senior School Certificate Examination,CBSE Aggregate: 88.60% (PCM+CS) — *Apr. 2012 – Mar. 2013*

- **Kendriya Vidyalaya Suratgarh Cantt** — Rajasthan, India
  All India Secondary School Examination,CBSE CGPA: 10.0/10.0 — *Apr. 2010 – Mar. 2011*

Technical Skills

- **Programming Languages**: C, C++, JavaScript, Java, Go.

- **Blockchain**: Hyperledger(Fabric, Explorer, Cello), Bitcoin, SmartContract.

- **Cloud**: AWS, Microsoft Azure.

- **DevOps Tools**: Docker, Kubernetes, Ansible, Jenkins, Git, SVN.

- **DBMS**: MySQL, MariaDB, Oracle 11g, MongoDb.

- **Operating Systems**: RedHat, Ubuntu & other Linux Versions, Windows.

- **Linux Servers & Protocols**: Ssh, Telnet, Dns, Http, Dhcp, Ftp, Samba, Nfs, Ntp, Lvm, Apache,Rip, Sshfs, Iscsi, TargetCli, Glusterfs etc.

- **Others**: Nodejs, Shell Scripting, Hypervisors, IPFS.

- **Interests**: Data Structures and Algorithms, Blockchain, Cloud Computing, DevOps, Linux, Virtualization, Competitive Coding, Open Source Technologies.

Experience

- **Zenlabs R&D, Zensar Technologies.** — Pune, India
  Software Engineer — *Jul 2018 – Present*
  - Build the distributed skill ledger roster management system for the United Nations Development Program.
  - Designed and build Blockchain Orchestration Tool to spawn dynamic blockchain network & deploy smart contracts on Hyperledger Fabric with single host as well as multi-host configuration.
  - Responsible for system design and backend development.
  - Responsible for designing network architecture & writing smart contracts for decentralized applications.
  - Responsible for building client projects & POCs on blockchain and MEAN Stack.

- **Zenlabs R&D, Zensar Technologies.** — Pune, India
  Blockchain Developer Intern — *Jan 2018 – Jun 2018*
  - Designed and build POCs like RMA tracking, International Health Agency (Global Organ Transplant Registry) etc.

- Responsible for designing blockchain network architecture & wrote smart contracts for decentralized applications & backend development.

- **LinuxWorld Pvt. Ltd.** Jaipur, Rajasthan
  Cloud Developer Intern *May 2016 – Jun 2016*
  - Automate Deployment of Cloud Computing & Virtualization with Containerized Docker Integration On Redhat Linux System Using Python CGI and Provisioned by DevOps - Own Cloud Infrastructure with Operational Intelligence Tool Splunk.

- **Road Ahead Technologies Pvt. Ltd.** Jaipur, Rajasthan
  Oracle Certified Professional & Associate Training *Aug 2015 – Dec 2015*
  - Hands on experience of professional and industry level routine work of DBA on Oracle 11g like to put the database on archive mode, taking different types of backups like hot, cold, RMAN etc. and recovery of database in different situation in order to keep the high Hit Ratios and various other stuffs.

CERTIFICATIONS / BADGES / ACHIEVEMENTS

- **Open Source Project Contributors**: Hyperledger Fabric and MongoDB.

- **2018 Quarterly Awards (Zensar Technologies)** : For outstanding contribution and commitment to company.

- **2018 Specialization In Blockchain (University at Buffalo and The State University Of New York)** Cert. ID: **RD5V8X26ESR5**
  Blockchain Basics: 100.00% Smart Contracts: 100.00%
  Blockchain Dapps: 100.00% Blockchain Platform: 98.00%

- **2018 MOOC (University Of Nicosia)**: Introduction To Digital Currencies (Grade: 88.83%).

- **2018 Version Control with GIT (Atkassian)**: Cert. ID: **V8UPSKG95XH8** (Grade: 100.0%).

- **2018 IBM Verified Badges**: Blockchain Essentials, Blockchain Foundation Developer,Docker Essentials.

- **2018 Academics in college**: Ranked among Top 10 students among all branches.

- **2017 AMCAT**:ID: **30006399678139**. Computer Science: 92.7% Quantitative: 96.9%

- **2016 EX300 RHELv7**: Redhat Certified Engineer. Cert. ID: **160-275-855**

- **2016 EX200 RHELv7**: Redhat Certified System Administrator. Cert. ID: **160-275-855**

- **2016 1Z0051 Oracle11g**: Oracle Database 11g SQL Fundamentals I. Cert. ID: **OC1628469**

- **2011 Academics in school**: Xth School Topper & received Certificate of Merit & cash price of Rs10000 from KVS & various certificates from Army Welfare Society & certificates in National Junior Maths and Science Olympiads.

PROJECTS

- **ZenSmartBlox Orchestration Platform** Nov 2018
  Technologies Used: *Hyperledger Fabric, Kafka, Kubernetes, Docker, Shell Scripting, Nodejs, MongoDB.*
  - With this dynamic blockchain network of Hyperledger Fabric can be spawned on local infrastructure as well as on clouds like AWS, Azure etc. It supports both single as well as multi host configuration.
  - Everything is dynamic like adding peers, organizations, creating channels, installing & instantiating chaincodes, joining channels etc.
  - Responsible for designing solution architecture, wrote automation scripts for deploying blockchain network on kubernetes clusters and implemented backend.

- **International Health Agency (Global Organ Transplant Registry)** Jun 2018
  Technologies Used: *Hyperledger Fabric, SDKs, Shell Scripting, Docker, Go, Nodejs, MongoDB.*
    - ○ It is actually the implementation of systematically storing records regarding successful organ transplants from several countries and hospitals in a distributed ledger platform.
    - ○ This ledger can be accessed through a friendly user interface by the registered users and by Utilizing filtration category ,expected results are fetched and generated on the interface based on the search statements.
    - ○ Responsible for designing and implementing blockchain network architecture & Smart Contracts (go, nodejs) & backend development.

- **Return Material Authorization (RMA) Tracking** Mar 2018
  Technologies Used: *Fabric, SDKs, Docker, Go, Nodejs, MongoDB.*
    - ○ Using a blockchain to track the movement of product between client, manufacturer, shipper and logistics. Its aims at providing transparency and traceability throughout the journey.
    - ○ Responsible for designing and implementing blockchain network architecture & Smart Contracts (go, nodejs) & backend development.

- **Deployed my Own Cloud "BlackHole Cloud"** Mar 2017
  Technologies Used: *Redhat, Linux, Python, MariaDB, Qemu-Kvm, RFID tags, HTML, CSS, JS.*
      Cloud Computing Services Access through web portal All users login verification through database & users details & no. of OS running is stored in database.
    - ○ **SaaS**:- Opera, Google Chrome, Terminal, Adobe, Firefox, Notepad, Gedit etc.
    - ○ **Staas**:- Object Storage through NFS, SAMBA, SSHFS, GLUSTERFS & Block Storage ISCSI.
    - ○ **Iaas**:- Providing OS of required RAM, CPU, and Storage on demand of Clients. OS like RedHat, Kali,Ubuntu, Windows etc. are provided in Web Browser using VNC protocol even using RFID tags by which we can shift our running OS in any devices having NFC support and Web Browsers.
    - ○ **Paas**:- Providing platform like python, java, Ansible, Apache server etc. using Docker & Container.

- **StandBy Database (DATAGUARD)** Mar 2016
  Technologies Used: *Oracle Linux Enterprise., Oracle 11g.*
    - ○ It enables very high-speed movement of data and metadata from one database to another means providing Disaster recovery, Complete automatic data protection, and High availability.
    - ○ It aims to avoid failure of ongoing transactions or maintain hit ratio or to minimise time lag or server down problem. So no loss of ongoing transactions and data loss.

OTHER INTERESTS

- Eager To know & learn more about Trending Technology and Gathering general & technical knowledge.

- Doing Drawing and Social Work & Playing and Watching Cricket, Sci-fi movies & based on Inspiring True Events movies, Hearing music, Techs videos on YouTube.