

Piyush Kumar

(Blockchain/Redhat Certified Engineer)

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DOB : 16-Mar-96

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, TypeScript, [Go, Python, Java](Basics), Solidity.
- **Blockchain:** Hyperledger(Fabric, Explorer, Cello), Ethereum, SmartContract.
- **Cloud:** Azure & Azure DevOps, AWS.
- **DevOps Tools:** Docker, Kubernetes, Terraform, Ansible, Jenkins, Git, SVN.
- **DBMS:** MySQL, MariaDB, Oracle 11g, MongoDB, Redis.
- **Operating Systems:** RedHat, Ubuntu & other Linux Versions, Windows.
- **Others:** Nodejs, Shell Scripting, Hypervisors, IPFS, Postman.
- **Interests:** Data Structures and Algorithms, Blockchain, Cloud Computing, DevOps, Linux, Virtualization, Competitive Coding, Open Source Technologies.

EXPERIENCE

- **Product Engineering, Bosch.** Bangalore, India
Senior Engineer Mar 2020 – Present
 - Building a API based Generic Blockchain Platform (product) for Tracking and Tracing of assets in supply chain. And this platform can be integrated with various supply chain usecases like Food, Pharma, Auto Industries etc.
 - Working on different microservices of product like Actor, Asset, Bizflow etc. Currently developing API Accounting microservices of the product.
 - Responsible for adding new features to the product, writing Smart Contracts in solidity and also handling DevOps(kubernetes, docker, azure etc.) part of the product.
- **Zenlabs R&D, Zensar Technologies, RPG Group.** Pune, India
Software Engineer Jan 2018 – Mar 2020
 - Built the distributed skill ledger roster management system for the United Nations Development Program.
 - Responsible for backend development and designing network architecture & writing smart contracts for decentralized applications, client & pilot projects.
- **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.

CERTIFICATIONS / BADGES / ACHIEVEMENTS

- **Open Source Project Contributors:** Hyperledger Fabric and MongoDB.
- **2020 SPOT Award (Bosch) :** For Improving Productivity in the team using Latest and Cutting Edge Technologies.
- **2020 Certified Blockchain Expert (Blockchain Council):** Cert. ID: **26083754** (Grade: 97.0%).
- **2019 Top 30 Innovative Products (RPG Group.) :** Our product **Deployment Controller** comes among top 30 innovative product accross whole RPG.
- **2018 Quarterly Awards (Zensar Technologies, RPG Group.) :** For outstanding contribution and commitment to company.
- **2018 Specialization In Blockchain (University at Buffalo and The State University Of New York)** Cert. ID: **RD5V8X26ESR5**
- **2018 MOOC (University Of Nicosia):** Introduction To Digital Currencies (Grade: 88.83%).
- **2018 Academics in college:** Ranked among Top 10 students among all branches.
- **2016 EX300 & EX200 RHELv7:** Redhat Certified Engineer and Redhat Certified System Administrator. Cert. ID: **160-275-855**
- **2016 1Z0051 Oracle11g:** Oracle Database 11g SQL Fundamentals I. Cert. ID: **OC1628469**

PROJECTS

- **Distributed Capacity Pool Management (UNDP)** Jan 2020
Technologies Used: Blockchain, Fabric, Kubernetes, Docker, Go, MEAN.
 - The Distributed Skill Ledger project is aimed at streamlining the resourcing process of UNDP and create a distributed library of skilled individuals that can be leveraged across geographies and projects.
 - Creation of directory of skilled associates internal and external to UN who can be discovered by project requester. Creating a disintermediated platform for vetting, engaging, contract creation and finally performance management of these resources across several UNDP Projects.
 - Responsible for designing smart contracts, blockchain network, automated deployment of the application, implemented backend APIs.
- **Dynamic Blockchain Orchestration Platform** Nov 2018
Technologies Used: Hyperledger Fabric, Kafka, Kubernetes, Docker, Shell Scripting, NFS, MEAN, Python.
 - 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 APIs.
- **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.