Piyush Kumar
(Blockchain/Redhat Certified Engineer)

https://piyushkumar96.github.io
https://www.linkedin.com/in/piyushkumar96
https://github.com/piyushkumar96

Email : piyush25032@gmail.com
Mobile : +91-8209557041
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.

- **Blockchain**: Hyperledger(Fabric, Explorer, Cello), Bitcoin, 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 Blockchain IOT enabled product for Tracking and Tracing of an assets in Supply Chain. And this platform can be integrated with various Supply Chain usecases like Food, Pharma, Auto etc.

- **Zenlabs R&D, Zensar Technologies.**   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 system design.
    - Responsible for designing network architecture & writing smart contracts for decentralized applications.
    - Responsible for building client projects & pilots on blockchain and MEAN Stack.

- **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.

- **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**

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.