

# Alok Ranjan

Web Application Developer

## About Me

Hello! I'm Alok Ranjan. I am passionate about Web Application Development and Design. 11+ years of experience in software development with a demonstrated history of working in the computer software industry. I am skilled in PHP, Python, MongoDB, Redis, RabbitMQ, MySQL, Jenkins, jQuery, JavaScript, HTML, CSS, and GIT.

I have developed many micro services and written many Restful APIs. I have migrated a big MySQL DB to MongoDB using the script that I wrote. I have secured my APIs by implementing encryption, JWT token, and application level rate limit for many APIs.

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## Professional Skills

PHP



Python



Angular JS



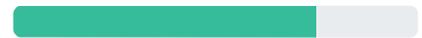
Codeigniter



Flask



Javascript



CakePHP



RabbitMQ



Jquery



MongoDB



Redis



HTML



MySQL



Docker



CSS



## Work Experience

### Software Developer at National e-Governance Division, MeitY

Jun, 2015 - Present

#### Project 1: DigiLocker (<https://digilocker.gov.in>)

Digilocker lets you store a range of documents such as your school and college mark sheets, passports, ID proofs, and many more in digital form.

- Leading development team (9 members including me)
- Dockerize all components used in DigiLocker.
- Auth module(JWT and Basic Auth) used AES encryption and hashing on it.
- Log writing using RMQ and python workers
- User interface and backend development for DigiLocker accounts services ([https://accounts.digilocker.gov.in/signin/smart\\_v2](https://accounts.digilocker.gov.in/signin/smart_v2))
- User interface and backend APIs for DigiLocker web and mobile application(<https://digilocker.gov.in>)

- Restful APIs for profile Services(Used technologies are Codeigniter, MongoDB, Redis, RabbitMQ, and MySQL).
- Restful APIs for DigiLocker drive using Python Flask, AWS S3, MongoDB, and Redis caching.
- Migrate all user files from Gluster volume and Storage Area Network(SAN) to AWS S3.
- Migrate all user MySQL data to MongoDB.
- Bulk signup(approx 30 lakh users) for CBSE 10th and 12th Students and notify user using SMS.
- Implement Aadhaar(UIDAI) KYC, OTP AUTH, and demographic auth service in DigiLocker (KYC using figure print device and mobile OTP)
- Make DigiLocker multilingual
- I have developed issued documents, User activities, trashbin...

**Project 2: OpenForge**(<https://openforge.gov.in>)

- OpenForge is the Government of India's platform for open collaborative development of e-governance applications.
- Start working from scratch using customization of Tuleap(OpenSource).
- Migrate the old version to the new one
- I have done many internal application changes which are required by officials.
- Changed UI with help of a UX developer.

**Project 3: HelpDesk Portal**(<https://dlhelpdesk.digitallocker.gov.in>)

- Helpdesk portal for DigiLocker support team they can help and reply to users by getting solutions from this portal.
- Start working from scratch using the Codeigniter framework.
- API layer in Python Flask view layer in Codeigniter version 4
- Auth Module, KYC AUTH
- ACL for this portal
- Admin portal
- User search, File listing, update email, update mobile
- Dashboard page for reporting team(Used Bootstrap, many charts, and table)
- API directory, Redis keys management, User Management

### **Database Administrator at HCL Infosystems Ltd.**

Oct, 2014 - May, 2015

Maintain MariaDB and write some complex Mysql query. Deployment of application also done by me.

### **Sr. Developer at Neelkanth Digital Infonet Private Limited**

Nov, 2013 - Sep, 2014

Developed attendance portal for Gov. of India. Developing user interfaces as well as implementing business logics.

### **Sr. Developer at HCL Infosystems**

Aug, 2013 - Oct, 2013

Developed many Python modules for OpenERP V 6.0.

### **Asst. Programmer at Vidass Venture**

Mar, 2013 - Jul, 2013

Continue working on PayOnline portal as a PHP and Python developer.

### **Asst. Programmer at CyberQ Consulting Pvt Ltd**

Jan, 2012 - Mar, 2013

Payment Portal for Government of Jharkhand. Developing user interfaces as well as implementing business logics For various tax Payment.

## **Asst. Network Engineer at CyberQ Consulting Pvt Ltd**

Oct, 2010 - Dec, 2011

Developed PHP application like vacancy portal and enhanced some features in <https://giridih.nic.in>.

# Education

## **Masters in Computer Application** from Punjab Technical University, Jalandhar

2009 - 2011

Developed Inventory Management System in Visual studio 6. Explored various technologies which are used in web application development.

## **Bachelors's in Computer Application** from Punjab Technical University, Jalandhar

2006 - 2009

Developed Hotel Management System in Visual studio 6.

## **Intermediate of Commerce** from Jharkhand Academic Council, Ranchi

2006