SAURABH KUMAR

SOFTWARE ENGINEER

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PROFILE

Dedicated and performance-driven Software Engineer with a proactive approach and determination to finish all assigned tasks successfully. Effective team player offering extraordinary analytical skills and important ability to think critically. Experienced in the full project life cycle from design to implementation to integration.

WORK EXPERIENCE

SOFTWARE ENGINEER

IDEMIA, Bangalore, India *Oct 2019 – Present*

Nepal ID Project *Oct 2019 – Feb 2021*

Description: To design and develop a national identity card system with a unique identity number i.e. NIN (National Identity Number) for people of Nepal, based on their biometrics and demographic data. This project supports the Nepal government on its digital journey by providing a system, which is, sized up to 30 million of the applicant.

- Associated with Nepal National ID Project and responsible for Mule ESB development for integration of existing Enterprise Applications.
- Designed and developed SOAP and REST Web Services to expose functionalities such as authentication and data extraction with a person's fingerprints and IRIS.
- Developed Citizen Enrolment, Renewal, and Replacement interface which is capable to process 50K enrolment requests in 8 hours in the performance test.
- Developed a data retrieval tool using VB script, which is capable of retrieving more than 100K records from oracle database based on the requests.
- Software integration and development for Card Management, Biometric workflow including Fingerprint and IRIS.
- Coding, testing, and fixing programming errors.
- Developed and maintained application passing through all the stages.
- Involved in the release and delivery process of the product.
- Maintenance of go-live system.
- User acceptance tests.

Nepal Passport Project *Mar 2021 – Present*

Description: To provide an end-to-end solution from Pre Enrollment to Issuance (ICAO) compliant. The system can perform biographic validation and biometric deduplication. The system is also designed to interface with an external system such as payment, international, and some government agencies.

SKILLS

DEVELOPMENT:
Core Java, Python, C, C++, OOP, Data Structure, Algorithms, Mule ESB (3.8.1 & 3.9.0)

KNOWLEDGE:
HTML, CSS, JavaScript

TOOLS:
GIT, Bitbucket, Sourcetree, Maven, Tortoise SVN, Postman, SOAP UI, SQL Developers, Wireshark, JMeter, PuTTY, Xshell, xftp, WinSCP

SOFTWARE SKILLS:
JIRA, Confluence, MS Office Suite, Anypoint Studio, IntelliJ IDEA, PyCharm

LANGUAGE

- English
- Hindi

- Associated with Nepal National Passport project and responsible for Mule ESB development for integration of existing enterprise applications.
- Designed and developed a REST based payment interface to check the payment status of applicant from Nepal government Revenue Management Information System.
- Coding, testing, and fixing programming errors.
- Worked with Tech leads, Project managers and System Architect to design and develop robust solutions to meet client requirements for functionality, scalability, and performance.

Final Year Project | Sikkim Manipal Institute of Technology *8th Jan 2019 – 15th May 2019*

Project: 3D Reconstruction using 2D RGB Images
Description: A method is used called Photometric Stereo. Several images of the same object taken under different well-defined light directions. As a result, it produces albedo, a normal map that can be used to create a 3D model of that surface.

Mini Project | Sikkim Manipal Institute of Technology *08th Aug 2019 – 15th Nov 2019*

Project: IoT based Smart Health Monitoring System
Description: We used NodeMCU-ESP8266, Pulse sensor, and temperature sensor to send real-time data over WI-FI to a cloud platform called ThingSpeak and analyze the collected data against a threshold value to generate the alert. We also built a web dashboard using AJAX to dynamically update the real-time sensor data is displayed.

Other Project | Sikkim Manipal Institute of Technology *25th May 2018 – 20th June 2018*

Project: Sign Language Detection using CNN
Description: The main aim was to predict sign language gestures used by the deaf for communication. We implemented and trained Convolution Neural Network classifier to recognize sign languages. We achieved an accuracy of 87%.

EDUCATION

B-Tech, Computer Science and Engineering *2015 - 2019*
Sikkim Manipal institute of Technology, Sikkim
CGPA – 6.6 (66%)

12th, Senior Secondary School Certificate *2012 - 2014*
Guru Nanak Higher Secondary School, Ranchi
Percentage - 79%

10th, Matriculation (AISSC) *2011 - 2012*
Patna Central School, Patna
CGPA - 8.8 (83.6%)

CERTIFICATIONS

Learn Python in Simple Way	Udemy
The complete SQL Bootcamp	Udemy
Master Git and GitHub	Udemy
Mastering Data Structures and Algorithm	Udemy
Data Science and Machine learning	Ardent Computech Pvt. Ltd