Resume

HRIDAYA KANDEL
hridayakandel@gmail.com
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SUMMARY

A professional Software Engineer with nine plus years commercial experience and exceptional design and development skills with expertise in OO Design and Development, and experience with Agile methodologies project management.

PROFESSIONAL SKILLS

Languages: Java, C/C++, Python, JS, HTML, CSS
Framework: Grails, Spring, Hibernate, Django, TensorFlow, NumPy, Docker.
Tools: Eclipse, IntelliJ, Git, Maven, Gradle
Database: Oracle, MySQL, MSSQL Server, Redis, Mongo DB
Cloud Services: Amazon Web Services (AWS)
Platforms: Windows, Ubuntu, Oracle WebLogic Server, Mac
Testing: Selenium, Test Director, Test Runner, Cypress
Others: Strong knowledge on Agile, JIRA, HTML5, CSS3, AJAX, REST APIs, GraphQL, Postman, SQLite.

PROFESSIONAL EXPERIENCE

Cyanic Technology Pvt. Ltd (CYANIC GROUP), September 2019 – April 2022
Address: Maitidevi Ward-30 Kathmandu, phone: +977-9801848636, email: info@cyanicgroup.com, https://www.cyanicgroup.com)
Position: Director and Software Team Lead
(*Full-time paid)*

Projects:

Extension, Enhancement and Implementation of Traffic Violation Record System.
Project Description: Nepal Police had already developed and implemented the Traffic Violation Record System (TVRS) to keep up to date record of violators and offenders in the capital city of Nepal. This Project aims to extend, enhance and implement the web-based Traffic Violation Record System throughout the country by enhancing the existing systems functional and non-functional requirements.

Project Duration: Involvement: January 2022 – April 2022
Programming Duration: *4 months (five days Per week)*
5 hours of Coding, 1 hour of Maintenance 2 hours of Testing

Responsibilities:

- Create project plans with establish timelines for integral phases, assign to appropriate team member, manage workflow, train and instruct to develop reusable codes.
- Managed entire project life cycle from initial concept through final delivery.
- Evaluate and introduce new technologies, processes and policies whenever necessary.
- Design and develop the reusable modules required for the project and share with the team.
- Responsible for defining overall structure of the project, setting appropriate database, coding highly optimized code.

Programming languages, tools, *and* platforms: JAVA, IntelliJ, J2EE, Oracle WebLogic Server, Oracle Database, Jira, Cypress

Online Request System for Accident Proof Certificate (ORSAPC)
Project Description: It is a web based online system that allows the citizens to submit all the details regarding a vehicle accident. The system would be used by the Metropolitan Traffic Police Division for verifying accident and provide the digital proof certificate of accident to the citizens. The proof certificate is then shared with the corresponding insurance company.
Project Duration: Involvement: March 2021 – December 2021
Programming Duration: *10 months (five days per Week)*
5 hours of Coding, 1 hour of Maintenance 2 hours of Testing

Responsibilities:

- Write and test code, refining and rewriting it as necessary and communicate with the other programmers involved in the project
- Maintain proper code repository
- Developed the login modules for role management of different user
- Work closely UX/UX designer to develop easy and simple interface
- Prepare test plans for testing**,** write and test code, refining and rewriting it as necessary and communicate with the other programmers involved in the project

- consult clients and colleagues concerning the maintenance and performance of software systems, with a view to writing or modifying current operating systems

Programming languages, tools, *and* platforms: JAVA, Grails IntelliJ, Oracle, Maven, AngularJS, JIRA, Selenium

Middleware for online payment of Traffic Violation Record System (TVRS)
Project Description: It is middleware used by Metro Traffic Police Division (MTPD), Nepal. The online payment Middleware provides API services to Payment Service Provider (PSP)/ Payment Service Operator (PSO) to get the traffic violations details of violators including fine amount from TVRS. Once the Request is made from the PSP/ PSO the middleware then calls the API provided by RIMS (Revenue Information Management system) system of Financial Comptroller General Office (FCGO) to get Electronic Bill Presentment (EBP) against the violation. The EBP is then provided to the PSP/PSO for the payment against EBP.

Project Duration: Involvement: November 2020 – February 2021
Programming Duration: 4 months *(five days per Week)*
5 hours of Coding, 1 hour of Maintenance 2 hours of Testing

Responsibilities:

- work in close coordination with the developers of PSP/PSO and FCGO to develop REST API.
- Provided Assistance and support to integrated more than twenty wallets/ mobile banking apps to the Middleware by providing proper API documentation.
- Continuous discussion and communication with FCGO to understand their API documentation and develop proper code for efficient API calls.
- Conduct API testing along with Testing team.
- maintain systems by monitoring and correcting software defects

Programming languages, tools, *and* platforms: JAVA, Grails, Postman, IntelliJ, Oracle, Maven,

LIC Nepal Customer and Agent Application

Project Description: It is a mobile application developed for Life Insurance Corporation Ltd Nepal. The customer and the Insurance agents can login to the system using the mobile application to get various information related to their insurance policy and claims.

Project Duration: Involvement: September 2020 – October 2020

Programming Duration: *2 months (five days per week)*

5 hours of Coding, 1 hour of Maintenance 2 hours of Testing

Responsibilities:

- Develop a mobile-friendly web user interface using HTML, CSS, and bootstrap.
- write and test code, refining and rewriting it as necessary, and communicate with the other programmers involved in the project
- Developed an Android application for the customer and agent using JAVA

Programming languages, tools, *and* platforms: JAVA, Android Studio, MySQL, HTML, Bootstrap, CSS, JS.

Lost and Found Vehicle Record System (LFVRS): Study, Design, Development, and implementation of Lost and found vehicle record system

Project Description: LFVRS is a web-based system developed for the Metro Traffic Police Division (MTPD) to simplify the process of filing lost vehicle records and to facilitate the public; eliminating the manual process of going to the MTPD to file a lost vehicle report.

Project Duration: Involvement: May 2020 – August 2020

Programming Duration: *4 months (five days per week)*

5 hours of Coding, 1 hour of Maintenance 2 hours of Testing

Responsibilities:

- Design, test, and develop the software to meet user requirements
- communicating with the Product Owner for deriving better business requirements,
- coordinating with the team to produce viable solutions,
- focus on improving and producing quality solutions
- managing, inspecting, monitoring, and controlling development activities throughout the software development lifecycle
- work closely with designers, other developers, systems analysts, and clients.

Programming languages, tools, *and* platforms: JAVA, IntelliJ, J2EE, Oracle WebLogic Server, Oracle Database, JIRA, Cypress

Smart Digital Citizen Charter
Project Description: To implement SMART governance and to bring the citizens closer to the government more than thirty local governments: metropolitan cities, sub-metropolitan cities, municipalities, and rural municipalities have been using the Smart Digital Citizen Charter. Through this system, A citizen who has come to a local government office and is familiar with digital technology could interact with the system to voice their grievance or ask for information, or access local government services.
Project Duration: Involvement: September 2019 – April 2020
Programming Duration: *8 months (five days per week)*
5 hours of Coding, 1 hour of Maintenance 2 hours of Testing
Responsibilities:

- Managed entire project life cycle from initial concept through final delivery
- Develop and documented REST APIs for mobile application
- Responsible for defining the overall structure of the project, setting appropriate databases, and coding highly optimized code.
- Design and developed user-friendly interface working together with designers.
- Prepare test plans for testing**,** write and test code, refine and rewrite it as necessary, and communicate with the other programmers involved in the project**.**

Programming languages, tools, *and* platforms: JAVA, Grails IntelliJ, Oracle, Maven, AngularJS, JIRA, Selenium

Malika Incorporate Pvt. Ltd. June 2018 – August 2019
Address: Sahyoginagar, Koteshwor, +977-1-4154316,
https://malikaincorporate.com/)
Position: Sr. Software Developer
(*Full-time paid)*

Projects:

Issuance and Personalization of Smart driving license
Project Description: It is a desktop-based driving license personalization system used by the Department of Transport Management (DOTM) for the issuance of smart driving license. The system uses Zebra Thermal Printers for encoding the data in the chip and printing the smart driving License.
Project Duration: Involvement: June 2018 – August 2019
Programming Duration: 15 months *(five days per Week)*
5 hours of Coding, 1 hour of Maintenance 2 hours of Testing

Responsibilities:

- Develop the personalization system using JAVA and Zebra SDK.
- Worked on the API documents provided by DOTM for data encoding using their private key.
- Design, test, and develop the software to meet user requirements
- Develop a system with multi printer addition facility, print error detection, rollback printing record for error.
- Write and test code, refining and rewriting it as necessary, and communicate with the other programmers involved in the project

Programming languages, tools, *and* platforms: JAVA, Zebra SDK, IntelliJ, MSSQL, Selenium

ICT in Agriculture Nepal, March 2013– May 2018
Address: Baneshwor-34 Kathmandu, 9808166818, ictinagriculture@gmail.com)
Position: Founding Chairman and Software Developer
(*Full-time paid)*

Projects:

Application of ICT tools (mobile apps) in agriculture at the community level to empower farmers on decision making and support minimizing the CC induced disasters in Dolakha, Surket, Chitwan and Sindhupalchock districts of Nepal

Project Description: It is a mobile app developed by the Ministry of Agriculture's Department of Agriculture with technical support from UNDP under the Integrated Climate Risk Management Programme (ICRMP), and UKAid. The mobile app is used to disseminate improved agricultural technologies, and best practices and markets information to farmers, to help them boost their productivity. Farmers are also able to send any queries they might have to the related government agriculture service providers and receive direct responses.

Project Duration: Involvement: December 2017 – May 2018
Programming Duration: *6 months (Six days per Week)*
4 hours of Coding, 1 hour of Maintenance 2 hours of Testing
Responsibilities:

- modified the Krishi Ghar app as per project requirement for implementation in four districts of Nepal:Dolakha, Surkhet, Chitwan, and Sindhupalchock.
- Develop the web-based system to define different roles of the user.

- Work closely with UI/UX designers, and other developers, systems analysts and client.
- Design, test and developed the REST API's for the mobile application.

Programming languages, tools, *and* platforms: JAVA, Grails, IntelliJ, Android Studio, Oracle, SQLite, AngularJS, JIRA, Selenium

Integrated SMS system for disseminating Agriculture Information

Project Description: A web-based system integrated with the SMS service providers that allows the users to send relevant agriculture information as SMS to farmers. This information mostly included the weather and market price information.

Project Duration: Involvement: December 2015 – November 2017

Programming Duration: 24 months *(Six days per Week)*

4 hours of Coding, 1 hour of Maintenance 2 hours of Testing

Responsibilities:

- Different backend module development such as Login, Roles management, CRUD operations.
- Debugging, GUI development, database query optimization.
- User Interface development
- Integrated more than 15 different agriculture extensions services in the system
- Design, test and developed the software to meet user requirements
- maintain systems by monitoring and correcting software defects

Programming languages, tools, *and* platforms: JAVA, Grails, IntelliJ, MySQL, AngularJS, JIRA, Selenium

Agriculture Information Management System (AIMS Ver 1)

Project Description: It is an online web-based system for collecting agriculture related information. This system enhanced the agriculture data collection, making the agricultural data accessible instantly to higher level agricultural offices such as regional agriculture offices, program directorates, department of agriculture and ministry of agriculture supporting them in policy making.

Project Duration: Involvement: March 2015 – November 2015

Programming Duration: 9 months *(Six days per Week)*

4 hours of Coding, 1 hour of Maintenance 2 hours of Testing

Responsibilities:

- Identified the attributes of agriculture statistics and information
- Develop more than fifteen agriculture data entry forms
- Wrote efficient codes for report generation as per users roles,
- test and develop the software to meet user requirements

Programming languages, tools, *and* platforms: JAVA, Grails, Eclipse, MySQL, AngularJS, HTML,CSS

Krishi Ghar

Project Description: Krishi Ghar is an integrated web and mobile application developed for providing relevant agriculture information, to right people, at right time, at right place from relevant source. Many farmers of Nepal are benefited from Krishi Ghar. Information such as farming technologies, weather information, seeds related information are send through web portal and are received on farmers hand. Krishi Ghar provides a platform to different agriculture extensions to send information to a group of famers categorized according to crops, districts or geographical regions. The farmers can also give feedback on the information provided.

Project Duration: Involvement: March 2013 – February 2015

Programming Duration: *24 months (Six days per Week)*

4 hours of Coding, 1 hour of Maintenance 2 hours of Testing

Responsibilities:

- Design, test and develop the software to meet user requirements
- Designed and implemented the user interfaces (UI)
- write and test code, refining and rewriting it as necessary and communicate with the other programmers involved in the project
- REST API development and documentation for mobile app
- Design and developed on Mobile app interface

Programming languages, tools, *and* platforms: JAVA, Grails, Eclipse, MySQL, AngularJS,

TEACHING EXPERIENCE

Visiting Lectureship (2014-2021) (6 am to 10 am): Instructting Computer science subjects to undergraduates (BScCSIT and BIM) at various institutions

- Introduction to Cognitive Science
    - Swastik College, Gatthaghar, Bhaktapur
- Artificial Intelligence
    - Trinity International College, Dillibazar Height, Kathmandu
- Design And Analysis of the Algorithm
    - Texas Internation College, Mitrapark Kathmandu.
    - Sagarmatha Colege of Engineering, Sanepa, Kathmandu
- Theory of Computation:
    - Swastik College, Gatthaghar, Bhaktapur
- Trinity International College, Dillibazar Height, Kathmandu
    - E-Governance:
- Ambition College, mid- baneshwor kathmandu

PUBLICATIONS

-H.Kandel, B.Bhattarai, A.Shrestha "ICT in agriculture in Nepal", International IT conference on ICT for Glocalization.

EDUCATION

- Tribhuwan University- Central Department of Computer Science and IT,Kirtipur, Kathmandu, Nepal / 2013 MScCSIT / Cmputer Science / thesis completed in 2021

- B.Sc Computer Science and Information Technology (B.Sc. CSIT), St. Xavier's College, Maitighar. Tribhuvan University, 2008-2012 Duration: 4 years (Eight Semester) Overall Grade in percentage is 81.17

PROFESSIONAL TRAINING

- Completed Microsoft Innovation Center Nepal Pre accelerator program FEB 1-APRIL 31,2015
- Two Days Bootcamp on Blockchain Technology 11th and 12th February 2022 Organized by: BLOCKCHAIN FOR PRODUCTIVIT Y FORUM

HONORS

- Microsoft Imagine Cup Nepal 2015, Stood Second in National Finals in the world citizenship category held on April 22, 2015

- Krishi Ghar project was Nominated in "WSIS Project Prizes 2015" in category "C7. ICT APPLICATIONS: E-AGRICULTURE https://www.itu.int/net4/wsis/stocktaking/Prizes/2022/Nominated?jts=0QFJ6Q&idx=4&page=13#start

- Judge at Hult Prize At IOST December 5th 2020

- Judge at Hult Prize At AITM college March 25 2022