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| **Data Engineer | Software Engineer**  AADARSHA CHAPAGAIN | 3659948643  aadarshachapagain@gmail.com  <https://www.linkedin.com/in/aadarsha-chapagain-759532113/>  Brampton ON |

# Work Experience

## Software Engineer

**Accessible ICT**  *January 2021 – August 2021*

* Analyzed user requirements and created technical specifications with Miro, Jira and Adobe.
* Wrote and test code, refined and rewrote it as necessary and communicate with any programmers involved in the project, (Unit testing, API testing, performance testing)
* Maintained systems and corrected software defects by monitoring error logs and resource utilization metrics such CPU, memory, and disk usage
* Built, deployed, and maintained production infrastructure and services and staging environments with PM2 for NodeJS, git, Webhooks, AWS EC2, LightSail, RDS, AWS SES, AWS S3, Google Maps, Docker
* Consulted clients and colleagues concerning the maintenance and performance of software systems, with a view to writing or modifying current operating systems with Microsoft Teams. Google Meet, Skype for Business
* Investigated new technologies and continually updated technical knowledge and skills by attending in-house and external courses, reading documentation, manuals, guidelines and accessing new applications
* Deployed software updates, fixes and patches as per need of the system
* Wrote systems to control the scheduling of jobs or to control the access allowed to users or remote systems with cron Jobs and Apache Air flow
* Monitoring, troubleshooting and capacity planning of cloud platforms
* Implemented automation tools and frameworks (CI/CD pipelines)
* Present the deliverables and achieved milestones to the clients and other concerned parties with PowerPoint Presentations and live Demos

## Data Engineer | Full Stack Developer

**Code For Core Innovations** *December 2018 – January 2021*

* Analyzed and organized and cleansed raw data obtained from external source (Excel)
* Built Data models and Pipelines and API to communicate with other web applications
* Conducted data analysis and reports on result with python, Jupyter Notebook, Power BI Tableau and JavaScript frameworks Echarts , chart.js
* Performed Data cleansing and Validation with python and SQL
* Collaborated with Data Scientists and statistician on several projects
* Built Web Applications with MVC frameworks Laravel(php), Django(python) and flask(python)
* Worked with CSS, HTML, and JavaScript, along with jQuery, bootstrap to craft client-facing platforms
* Managed databases SQL, NO SQL, and servers with aapanel for Django and Flask, PhpMyAdmin, Apache, XAMP, MAMP, WAMP, LAMP
* Coding for functionality across multiple languages and platforms Laravel with PHP, Python with Flask and Django
* Communicated with specialized developers and the graphic design team to deliver the best possible product with Slack, Trello, Jira, Microsoft Teams, Skype, Telegram
* Kept up with emerging technology that may serve the business’ needs
* Prototyped minimal viable products for communication with company stakeholders
* Meeting both technical and consumer needs.
* Designed databases and developed APIs after ER modeling and use Case diagrams with draw.io, Postman and thunder client.
* Assessed the efficiency and speed of current applications and error log analysis
* Managed production and staging environment with Digital Ocean, AWS EC2, RDS, S3 GitHub, GitLab, Nginx
* Quality Testing, API testing with Postman and Unit Testing

## Web Developer

**W3 Developers**  *October 2016 – November 2018*

* Assisted the web development team with all aspects of website and application design.
* Assisted with the testing and maintenance of backend and front-end applications built with php Laravel, HTML, CSS, JavaScript, Bootstrap, jQuery and vuejs.
* Brainstorming new tech applications such as digital storage and mobile technology.
* Collaborated with developers to implement new web features.
* Kept up to date with the latest technology and programming trends.
* Converted video, audio, written, and graphic components into compatible formats for the web.
* Used user feedback to identify and correct problems with a client's website.

# Projects

**Tender Build** <https://react.tenderbuild.com.au/>

[Web Application to manage Construction project starting from tender to all the way to payments]

## Roles: DevOps Engineer | Backend Developer

Tools: Jira, GitHub, Miro, Pm2, AWS ec2, Nodejs, Express, MongoDB, Postman, Git

Responsibilities:

* Followed Whimsical design to create the database model and API
* Developed Rest API with Nodejs, Express and MongoDB
* Collaborated with frontend team and client to produce expected result
* Setup Staging environment to show case updates and changes to client
* Integrated microservices and third-party API
* Generated Test Data for Performance Testing
* Performed User Testing and Tracking, Planning and Visualization with Miro
* Used PM2 with git for continuous Integration and Development
* Monitoring, troubleshooting and capacity planning of Staging and Production Environment
* Developed/maintained processes, tools, and documentation

**Railway Recruitment** <http://www.dorw.gov.np/>

[Portal For collecting the online application for hiring done by National Railway Department During Covid]

## Roles: Data Engineer |

Tools: SQL, Python, Git

Responsibilities:

* Validated the application data using SQL and python
* Validation would mostly rely on the presence and absence of required document their readability
* Prepared the data of the applicants who have submitted all the relevant documents and uploaded the payment slip.
* Cleaned and application data and made it ready for analysis and visualized data

**Go Buddy Go** <https://gobuddygoo.com/>

(Web Application for Collecting Hotel Data from Hotels and room availability for booking and reservations)

## Roles: Full Stack Developer | Django/Flask Developer

Tools: Django, Flask, SQL, Aapanel, Heroku, Mongo, Apache Airflow, Postman, Git

Responsibilities

* Designed and Developed Database models and Entity relationship diagram
* Developed Use Case Diagram with Draw.io
* Developed User Interface with Django Templates and changed Admin Templates
* Developed and Tested API with Rest Framework (DRF) and Postman
* Performed Versioning and Update Release, built test Data for performance testing

**Hamro Swasthya** <https://covid19.mohp.gov.np/>

[Web and mobile application portal for Covid Data Visualization for Government of Nepal]

## Roles: Data Engineer | Database Developer

Tools: SQL, Draw.io, phpMyadmin, python, Django, PostMan, Git

Responsibilities:

* Performed Entity relationship modeling
* Designed Database to reflect user interface
* Updated and managed Database
* Developed and Tested API with Rest Framework and Postman
* Cleaned Data and Transformed for Visualization
* Performed Data Visualization to achieve useful insights

**National news Site** <https://gorkhapatraonline.com/>

[ News portal Owned and managed by Government of Nepal]

## Roles: Database Developer | API Developer

Tools: SQl, Draw.io, phpMyAdmin, Laravel , PostMan, Git

Responsibilities:

* Carried out Entity relationship modeling and documentation
* Designed Database to reflect the user interface
* Optimized Query and Database tuning to increase the performance
* Incorporated updates and changes in Database without affecting the production environment
* Developed and performed API testing with Postman
* Performed Microservices and third-party API integration

# Skills

* Language: C, Python, PHP, Spark, Java, Scala, Pig, HTML, CSS, JavaScript
* Libraries: Pandas, NumPy, ML
* Frameworks: Django, Laravel, Node, Express, PM2, Jira, Sqoop, Kafka, PowerBI, Tableau Hadoop, HDFS, jQuery, JSON, AJAX, Bootstrap, GraphQL
* Cloud: AWS EC2, RDS, EBS, EMR, GCP, Big Query
* Database: SQL, Mongo, Hive, Cassandra
* Systems: Windows (XP/2000/2003, 7, 8, 8.1, 10), UNIX, Linux, Centos, Macintosh
* CI/CD: Gitlab, GitHub, Webhooks

# Education

* Post Graduate Big Data Analytics Lambton College Mississauga.

(2021-2023)

* Bachelor’s in computer science & Information Technology, Tribhuvan University.

(2014-2018)

# Awards

**Jury Mention ICT AWARD (2020)**

This award was granted to Hamro Swasthya (official Covid 19 App by Ministry of health and population). Hamro Swasthya is a crisis management web and mobile portal to disseminate information regarding the Covid -19 victims

Contribution: Database Design and Maintenance

**The FR. Charles A law S.J. Memorial Award (2018) St. Xavier’s College Maitighar**

For Excellence in Social and Environmental Responsibility