**Nagasai Velpuri**

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TECHNICAL SKILLS

**Languages**: SQL, Python, Scala, HiveQL, C++, Java, HTML, HBase

**Tools**: SSIS, SSRS, Spark Shell, Linux, VCS-Git, Jenkins, IntelliJ, MS Office, AWS – EMR, S3, Glue.

**Technologies**: ETL, Machine Learning, Apache Spark, Hadoop, Data Visualization, Competitive Programming, DSA, Deep Learning and Neural Networks, Natural Language Processing, Hadoop, File formats, Pandas.

**Process**: Agile, Jira, Confluence

EDUCATION

**Postgraduate Certificate in Artificial Intelligence and Machine Learning** May 2023 – Jan 2025

Lambton College

**Bachelor of Technology in Electronics and Communication Engineering** Jun 2016 – May 2020

K L University

EMPLOYMENT EXPERIENCE

**Software Engineer | Database** **Administrator** Mar 2021 – Apr 2023

Innova Solutions

* Maintained the Database-related stored procedures and data in an order management solutions project, created Database design for a CRM module.
* Narrowed down the search response time by 200% by rewriting the Joins, adding indexes and using FULL TEXT search concept, hence performance tuning is achieved.
* Monitored the performance of DB server. Used Performance monitor tool and New relic tool for analysing the load on server.
* Migrated order and customer related data from upstream system, leading exposure to ETL tools.
* Developed effective stored procedures for Dashboard's screen which includes reports and analysis of orders placed by users.
* After production release, worked as production support engineer, where interaction with end clients, finding the issues in application by debugging logs and doing quick fix is accomplished.
* Updated certificates of Dev, Test environments for the application and Configured Jenkins server. Also did deployments to each environment.
* Worked on backend tasks like updating service classes and writing queries for repositories.

**Associate Software Engineer** Jan 2021 – Mar 2021

Innova Solutions

* Worked on migrating a retail project (Tech style) from SQL server to Snowflake. Configured and optimized ETL Data pipelines. Utilized various AWS Glue transformation while transferring Data.
* Built optimized queries that generated reports to clients on need basis.

**Trainee Software Engineer** Dec 2019 – Jan 2021

Innova Solutions

* Got trained in various domains which includes .NET, web design and SQL training.
* Developed a sample login web page, which stores and uses APIs to fetch the data stored in their login.

PROJECTS AND CERTIFICATIONS

**AWS Certified Cloud Practitioner**

**Big Data - Trendy Tech:** [**Git Hub Link**](https://github.com/velpurinagasai99/Spark)

* Created Map Reduce Jobs in Scala, HiveQL with best practices resulting optimization. Developed Scala codes using Broadcast, partition by, and bucket by in various file formats using both low level code-RDDs and Structured APIs - Dataframes and Datasets.
* Implementing for streaming Data Kinesis and AWS MSK. Provisioned clusters in AWS EMR and made Pyspark deployments using step functions.
* On going certification on AWS Data Engineering which also covers Amazon S3, Redshift, Athena, Lambda services.

**Machine Learning:** [**Source code Link**](https://github.com/velpurinagasai99/Spark)

* Constructed an ML project for resume processing, including data collection, preprocessing, keyword analysis, and NLP tasks. Scope is to use cosine similarity. I also used Pandas to transform and work on DFs
* Revamp a CNN and Deep Learning for Chess game. Also developed some basic projects such as face recognition and object detection using AI concepts.
* Good analytical and statistical knowledge on mathematical concepts for Machine Learning.