Vasumathi Subramani

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CAREER OBJECTIVE

Software engineer with 4+ years of experience in ETL process using SSIS and coding in .Net framework and a graduate in M.S. Computer Science, looking for a challenging opportunity that helps to implement/improve my critical thinking and problem-solving skill in the field of data. Interested to learn new technologies and tools as the need arises.

SUMMARY

- Strong Knowledge on **PL/SQL, SQL, Oracle database** and **stored procedure**.
- Have very good hands-on experience in **Extracting/Transforming/Loading** data using **SSIS packages.**
- Strong knowledge on performing **batch processing of data** in nightly run.
- Have good hands-on experience in converting manual backend process to **SSIS packages** and configuring in **Active batch** jobs.
- In depth knowledge in **descriptive statistics, regression analysis, Hypothesis Testing.**
- Experience in data visualization using **SAS, Tableau,** and different python libraries (**matplotlib, Seaborn, PLOTLY, ggplot2**).
- Strong working knowledge with **Python, C#** and good understanding of object-oriented programming languages like **Java.**
- Working knowledge of **DevOps and CI-CD** practices using **Docker and Kubernetes**.
- Developed and supported applications in **ASP.Net** and hands-on experience with **REST APIs**.
- Extensive experience in working with SDLC models such as **Agile, Waterfall** and tools like **JIRA**.
- Good understanding associated with configuration management tools such as **GitHub, TFS**.

CERTIFICATIONS

- Google Data Analytics Professional Certificate
- ETL and Data Pipelines with Shell, Airflow and Kafka
- Introduction to Data Engineering

SKILL SET

Programming Languages:	Python, C#, R, SQL
Database dialect:	MS SQL Server (SSMS), Big Query, Oracle developer
Libraries:	Matplotlib, Seaborn, ggplot2
Visualization Tools:	SAS, Tableau
ETL Tools:	SQL Server Integration Service (SSIS), Kafka
Workflow Manager:	Active Batch, Apache Airflow
Other Tools:	Eclipse, Visual Studio, NetBeans, Jupyter Notebook, Anaconda, Docker, Postman, Jira
Continuous Integration:	Jenkins
Version Management:	GIT, TFS

PROFESSIONAL EXPERIENCE

Senior System engineer	Infosys Pvt Ltd-India	Dec 2016 – Dec 2020

Client: SPS (Select Portfolio Servicing), United States   **Location: India**

Roles:
- Developing new SSIS packages to automate manual backend process.
- Modifying the existing SSIS packages based on client's requirements.
- Extracting data from various sources using SSIS packages and perform ETL process.
- Used Active Batch tool to automate the job triggers, deploy SSIS packages and to have job constraints.
- Involved in developing project coding in C# and Database queries in Microsoft SQL 2012.
- Modifying existing desktop WPF applications using MVVM architecture.
- Consuming and Developing Windows Communication Foundation services (WCF).
- Creating LINQ enabled database layer using API (Application Program Interface) such as LINQ to SQL and Entity Framework.
- Experienced working in Client facing environment, along with Architects, Developers, and System Engineers and maintained Co-ordination among the Team.
- Software development experience involving in some stage of Software Development Lifecycle (SDLC) including Analyzing Requirements, Designing, Developing, Integrating, Testing and Supporting the Software Applications.
- Worked in resolving questions related to Product Backlog Item definition and acquire clarification and detail on any or new requirements (User Stories) and Product Backlog creation (User Stories, acceptance Criteria, Technical Design, Level of Effort, etc.)
- Participate in development phase meetings including Daily Scrum, Sprint Planning and Review sessions.

ACADEMIC PROJECTS

| M.S. Computer Science | Franklin University, Columbus | Jan 2021 – Dec 2022 |

Regression Model to determine the longevity of dolphins: SAS
- Performed regression analysis on the provided dataset and compared between **linear, quadratic, cubic and multivariate regression model** to see the good fit.
- Performed **Hypothesis testing** to determine the variables to be included in the regression model.

Data Visualization of Trends in Educational Enrolment: Tableau
- **Gathered** data from UN Statistics Division and **cleaned** and **visualized** the trends in primary and secondary educational enrolment across countries.
- **Compared** the patterns in male/female enrolments in both levels.
- Identified the countries that have the highest/least enrolments over the given period.

Creating ETL Data Pipelines using Apache Airflow
- Created **DAG** and Extracted, Transformed, Loaded data into CSV files.
- Scheduled and monitored the DAG and visualized the DAG in UI.

Web App using Restful web services
- Developed web application in **Java** and deployed it in **glassfish server** and tested the **Restful Web Services** using **postman**.
- The Web Service was tested for adding student/course to the gradebook.

Junit Testing on Banking Application:
- Developed a banking application model (ATM Interface) using **Java** in **Eclipse**.
- Developed **test suite** to perform unit testing Using **JUnit5**.

ACADEMIC QUALIFICATION

Franklin University, Columbus, Ohio   **December 2022**
Masters of Science in Computer Science (Major: Data Analytics)

Anna University, Chennai, India   **May 2016**
Bachelor of Technology (Major: Pharmaceutical technology)