

Pradeep Singh

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PROFILE

- Seasoned software professional with **10+ years** of experience in product based development in **Health Insurance domain**.
- Worked across various technology domains. Starting with mainframe, COBOL in early career, transitioning to SAS for data analytics and ultimately to cloud native technologies in current project.
- Solid experience in working with large data sets in business context using **Python / PySpark** and **cloud native technologies** with the ability to execute full SDLC process starting from Design -> Development -> Testing (Debugging) -> Maintenance iteratively
- Hands-on experience with industry's major software development practices such as the Waterfall model, AGILE methodology, **CI/CD, TDD** (Test Driven Development), SCRUM, code reviews, unit & integration testing.
- Hands on experience working with multiple strategic projects focused on Cloud and microservices based applications such as **AWS GLUE, PySpark, Step Functions, S3, RDS, AWS Lambda, Redshift, Boto3, Docker, AWS API Gateway**, Jenkins, please.build, Terraform.
- Involved in **Data Engineering**, Architecture, Coding, and Migration of existing applications to AWS.
- **AWS Certified Solutions Architect - Associate**.

EXPERIENCE

April 2016 – Present | CGI | Senior Consultant | Bloomfield, CT, Client –Cigna.

Key Technologies: Python, PySpark, AWS GLUE, Step Functions, S3, RDS, AWS Lambda, Redshift, Boto3, Docker, AWS API Gateway, Jenkins, please.build, Terraform.

- Built data pipeline in AWS using **AWS GLUE**, Step Functions, Python, Redshift, **PySpark**, S3 and Boto3 and **Terraform**.
- Established the standards for PySpark development. Advocated use of **Spark SQL** to enhance delivery speed and ease of development.

- Did **performance tuning** on PySpark jobs involving large number of complex transformation reducing the runtime from hours to minutes.
- Developed **unit testing framework** for PySpark jobs using **Pytest** and **please.build**.
- Worked on POC migrating existing monolith applications to microservices based services using Python, Angular and Flask.
- Implemented Proof of Concept (POC) to develop a framework for code quality scanning for application source code as part of making the application CICD compliant.
- Implemented POC to develop REST framework in python using Flask to render the values fetched from Atscale OLAP cubes as REST service.

Aug 2014 – April 2016 | CGI / Senior Software Engineer | Bloomfield, CT, Client -Cigna

Key Technologies: SAS, Python, Teradata, Hadoop, Hive, SQL, Shell Scripting, Java Graphics, HP Exstream, Jenkins, Udeploy, GIT.

- Developed and enhanced python Teradata ETL framework to perform ETL from Teradata to other source systems.
- Lead the development effort in building robust analytics applications using SAS, Python, Hive, Teradata, SQL, Shell Scripting, Java Graphics, and HP Exstream etc.
- Wrote SAS programs to fetch, clean and transform data from various databases including Oracle, DB2 and Teradata, and MS Access using various SAS procedures.
- Worked as a SME for Opentext Exstream tool. Designed a lot of reports with innovative visuals, overcoming the tools limitation on various occasions. Trained other developers across application to use the tool and resolved a lot of tool related issues on a number of occasions.

CGI / Software Engineer.

July 2010 – Aug 2014, Hyderabad, Telangana, India, Client –Cigna.

Key Technologies: COBOL, JCL, VSAM, CICS, REXX, Endeavour, Easytrieve, DB2

- Mainframe Development and production support using COBOL, JCL, DB2, VSAM, CICS, REXX and Easytrieve.
- Suggested and implemented various application improvements and automation that saved many hours of manual work, processor time and dollars to the company.
- Wrote automation jobs in REXX to identify scope of work for Easytrieve to focus migration.

CERTIFICATION

[AWS Certified Solution Architect – Associate](#)

EDUCATION

College of Engineering Roorkee, India

Bachelor of Technology in Information Technology (2006-2010)

INTRESTS

I love all kind of sports but prefer running to maintain my sanity. I am member of the CT trail mixers and have ran half of all the 800 miles of blue blaze trails so far. I am also a member of Milan (Indian cultural organization) and have been involved in various community activities. When I am not moving my body I love to read or learn something new.