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# Example of Principal Data Engineer Job Description

Our growing company is looking to fill the role of principal data engineer. Thank you in advance for taking a look at the list of responsibilities and qualifications. We look forward to reviewing your resume.

## Responsibilities for principal data engineer

* Research, design and implement big data tools and frameworks required to provide request capabilities
* Identify and integrate new technologies to enhance existing infrastructure (AWS, SaaS)
* Designs highly scalable ETL processes with complex data transformations, from disparate applications and data formats
* Designs secure cloud solutions using AWS services like EC2, S3, IAM roles and policies, Auto scaling, Elastic Load Balancing, and VPC
* Support of technology implementations from a technical perspective including experience with cloud based technologies, data cleansing and conversions, interface design/development, systems development life cycle
* Design, develop, execute and document software solutions to address complex data collection, processing, transformation and reporting issues
* Provide architectural blueprints and technical leadership
* Evaluate and recommend tools, technologies and processes to ensure the highest quality and performance is achieved
* Collaborate with peer organizations, dev ops, support organizations on technical issues and provide guidance
* Interpret and translate business needs to technical requirements

## Qualifications for principal data engineer

* Experience working with NoSQL and large amounts of data highly desired
* 5+ years of experience with data pipelines and familiarity with analytics and concepts
* OOP expertise required, preferably C#/C++/Java - Bachelor degree or an advanced degree (Masters and/or PhD) in computer science, mathematics, data mining, statistics, machine learning, or related field
* Experience working on a large codebase
* 12+ years hands-on experience with shipping services and databases
* Ability to work in a fast-changing and dynamic environment