What is Git

By far, the most widely used modern version control system in the world today is Git. Git is a mature, actively maintained open source project originally developed in 2005 by Linus Torvalds, the famous creator of the Linux operating system kernel. A staggering number of software projects

rely on Git for version control, including commercial projects as well as open source. Developers who have worked with Git are well represented in the pool of available software development talent and it works well on a wide range of operating systems and IDEs (Integrated Development Environments).Having a distributed architecture, Git is an example of a DVCS (hence Distributed Version Control System). Rather than have only one single place for the full version history of the software as is common in once-popular version control systems like CVS or Subversion (also known as SVN), in Git, every developer's working copy of the code is also a repository that can contain the full history of all changes.

## Performance

## The raw performance characteristics of Git are very strong when compared to many alternatives. Committing new changes, branching, merging and comparing past versions are all optimized for performance. The algorithms implemented inside Git take advantage of deep knowledge about common attributes of real source code file trees, how they are usually modified over time and what the access patterns are.

Unlike some version control software, Git is not fooled by the names of the files when determining what the storage and version history of the file tree should be, instead, Git focuses on the file content itself. After all, source code files are frequently renamed, split, and rearranged. The object format of Git repository files uses a combination of delta encoding (storing content differences), compression and explicitly stores directory contents and version metadata objects.

Being distributed enables significant performance benefits as well.

For example, say a developer, Alice, makes changes to source code, adding a feature for the upcoming 2.0 release, then commits those changes with descriptive messages. She then works on a second feature and commits those changes too. Naturally these are stored as separate pieces of work in the version history. Alice then switches to the version 1.3 branch of the same software to fix a bug that affects only that older version. The purpose of this is to enable Alice's team to ship a bug fix release, version 1.3.1, before version 2.0 is ready. Alice can then return to the 2.0 branch to continue working on new features for 2.0 and all of this can occur without any network access and is therefore fast and reliable. She could even do it on an airplane. When she is ready to send all of the individually committed changes to the remote repository, Alice can "push" them in one command

PURPOSE

The **purpose of git**  is to manage a project, or a set of files, as they change over time. **Git** stores this information in a data structure called a repository. A **git** repository contains, among other things.

**CREATE:**

**1. CLONE**

The **git clone** command copies an existing **Git** repository. This is sort of like SVN checkout, except the “working copy” is a full-fledged **Git** repository—it has its own history, manages its own files, and is a completely isolated environment from the original repository.

2. COMMIT

Basically **git commit** "records changes to the repository" while **git** push "updates remote refs along with associated objects". So the first one is used in connection with your local repository, while the latter one is used to interact with a remote repository.

3.ADD

**Git\_add** . adds all modified and new (untracked) files in the current directory and all subdirectories to the staging area (a.k.a. the index), thus preparing them to be included in the next **git** commit . Any files matching the patterns in the .gitignore file will be ignored by **git add.**

**4. PUSH**

**Basically git commit records changes to the repository while git push updates remote refs along with associated object. So the first one is used in connection with your local repository, while the latter one is used to interact with a remote repository.**

**5. PULL**

**Incorporates changes from a remote repository into the current branch. In its default mode, git pull is shorthand for git fetch followed by git merge FETCH\_HEAD . More precisely, git pull runs git fetch with the given parameters and calls git merge to merge the retrieved branch heads into the current branch.**

**6. FETCH**

**In the simplest terms, git pull does a git fetch followed by a git merge . You can do a git fetch at any time to update your remote-tracking branches under refs/remotes/<remote>/ . This operation never changes any of your own local branches under refs/heads , and is safe to do without changing your working copy.**

**FULL STACK DEVELOPER**

**10 JOB DISCRIPTION**

**1. Full** **Stack** **Developers** with **Java**/j2ee and Angular 2 Framework

Company-IT SOFTWARE SOURCE-NAUKRI.COM

Job Description- Extensive experience Styling Web Applications using CSS 2/3,

Experience in SASS,LESS is a plus.Should have strong experience in HTML5,CSS2/3,Bootstrap, **Javas**cript, Jquery,ANGULAR 2 Knowledge on SASS, WEBPACK is preferred but not manadatory.Hands on Experience in Backend Programming with **JAVA**,JSP,J2EE,SPRING (MVC),SPRING Security.

2. Backend **Developer** - **Java**/spring/hibernate

Company- [The Modern Dimension](https://www.naukri.com/the-modern-dimension-jobs-careers-2040606) Source-NAUKRI.COM

Job Description- Hands on **Java** Engineers, with experience building consumer facing or enterprise applications using **Java** **stack** - Spring, Hibernate, MySQL Strong problem solving and analytical skills .Strong understanding of Object Oriented Programming concepts and Design patterns.

3.**Mean** **Stack** Developer

Company- [Quantinsti Quantitative Learning Pvt Ltd](https://www.naukri.com/quantinsti-quantitative-learning-jobs-careers-678662) Source - NAUKRI.COM

## Job Description

Build core QI infrastructure,Design and scale API endpoints. Work with the trading advisory team to build better features

Write good documentation for what you are doing, Write unit tests (Optional) write enlightening, impressive blogs of what you have been doing here. Building the tech team and that **means** hiring & campus visits once in a while. Mentoring & grooming junior developers.

4.**Full** **Stack** **Developer**-node.js,mongo Db-product in Artificial Intelligent

company-[AgreeYa Solutions India Private Limited](https://www.naukri.com/agreeya-solutions-india-jobs-careers-28505) source-naukri.com

## Job Description-Integration of user-facing elements developed by front-end **developers** with server-side logic.Design and implementation of low-latency, high-availability, and performant applications. Writing reusable, testable, and efficient code Implementation of security and data protection. Integration of data storage solutions.

5.Junior **Full** **Stack** **Developer** - React.js/ React Native **Developer**

COMPANY- [Zolostays Property Solutions Pvt. Ltd.](https://www.naukri.com/zolostays-property-solutions-jobs-careers-2489088) SOURCE-Naukri.com

Job Description-Excellent design & development skills in web markup, including HTML5, CSS3.Proficiency with well-structured CSS and pre-processing frameworks (SASS/LESS/Stylus).Good knowledge of JS-based build tools like Webpack, Grunt, Gulp, and Bower.Solid understanding of web technologies - JSON, HTTP, RESTful APIs, OAuth.Proficient understanding of cross-browser compatibility issues and ways to work around them.Good understanding of SEO principles in Single Page Applications.

6. Senior **Full** **Stack** Web **Developer**

**COMPANY-** [**Chipper Technologies Pvt. Ltd.**](https://www.naukri.com/chipper-technologies-jobs-careers-3346738) **SOURCE- NAUKRI.COM**

Job Description-Defines site objectives by analyzing user requirements; envisioning system features and functionality .Designs and develops user interfaces to internet/intranet applications by setting expectations and features priorities throughout development life cycle; determining design methodologies and tool sets; completing programming using languages and software products; designing and conducting tests.Recommends system solutions by comparing advantages and disadvantages of custom development and purchase alternatives.Integrates applications by designing database architecture and server scripting; studying and establishing connectivity with network systems, search engines, and information servers.Creates multimedia applications by using authoring tools.Completes applications development by coordinating requirements, schedules, and activities; contributing to team meetings; troubleshooting development and production problems across multiple environments and operating platforms.Supports users by developing documentation and assistance tools.Updates job knowledge by researching new internet/intranet technologies and software products; participating in educational opportunities; reading professional publications; maintaining personal networks; participating in professional organizations.Enhances organization reputation by accepting ownership for accomplishing new and different requests; exploring opportunities to add value to job accomplishment.

7. **Front** **End** **Developer**

Company-[Gluon Solutions India](https://www.naukri.com/goldflex-autoparts-jobs-careers-3913542) Source-Naukri.com

Job Description-Should have strong knowledge in Bootstrap framework.Should have strong knowledge in UI/**Front** **end** development(HTML,JS and CSS).Should have strong knowledge in Angular 4 framework.Experience working with remote data via JSON.Well-versed in visual and interactive design discipline.Create good UI with cutting edge design.Transform company vision to the application development; understand the animation and technical feasibility.Comfortable working on multiple projects in multiple releases.Continuously discover, evaluate, and implement new technologies to maximize development efficiency.Collaborate with cross-functional teams to define and design app.Work on bug fixing and improving application performance.

8. **Applications Developer**

Source -indeed company-

Job Description-2EE (Web Services, Servlets) with Tomcat application server. (2+ years experience)

Good fundamentals in data structures, caching, multithreading, messaging and asynchronous communication

JSON and XML (SAX / DOM parsing and manipulation).

RDBMS/SQL (esp. Oracle, preferably to include writing stored procedures)

RESTful web services development

Message Brokers – WebSphere MQ

Java Frameworks (preferably Spring)

Development tools (Maven, Jenkins, Eclipse)

Familiarity with linux and knowledge of command line

ElasticSearch or Solr

MongoDB

**9.** Java **Developer** (**full** **Stack**)

Source - naukri.com company-A[llegis Services India Pvt. Ltd. hiring for](https://www.naukri.com/allegis-services-india-jobs-careers-10698)

## Job Description

* **TEKsystems is Hiring Java Developers (fullstack) for a Reputed MNC at Electronic city, Bangalore**
* **Top Skills:**
* **1] Java/J2EE: Hands on experience on developing applications [coding].**
* **2] Javascript/Angular JS**
* **3] Webservices [REST/SOAP]**
* **4] Oracle database.5] Spring**

**10.**Solution Engineer - **Full** **Stack** **Developer**

**Source-naukri.com company-**[**Intelli Search services pvt**](https://www.naukri.com/intelli-search-services-jobs-careers-3273860)

## Job Description

* **- Create custom solutions from scratch**
* **- Responsible for integrating products with customers platform.**
* **- Resolve issues arising from Customers who would be having more than one SaaS solutions integrated.**
* **- Make sure Customer is happy with the solution we have provided.**
* **- Provide proper update to Customer with the whole integration process.**
* **- Expected to be aware of new web technologies and new platforms.**

**- Participate in technical discussions with Customers and resolve any technical questions (issues) they have related to products.**

**20 example of LIFO**

**1.The tennis balls in their container.**

**2.Women wearing bangles, the last bangle she wore is the first one to be removed back.**

**3.Taking out cookies or biscuits from the carton, you must remove one biscuit at a time, beginning with the one placed on the top.**

**4.Packing clothes in your luggage.**

**5.**