A technology stack, or tech stack, is the collection of tools, platforms, apps, and pieces of software that a company uses to build its products, carry out its business operations, and monitor its performance metrics. A tech stack can also include coding languages.

Company research

## **1. Instagram technology stack**

What about the tools that make Instagram tick? Let’s take a look at critical components of the Instagram technology stack:

* Python/Django on the server side
* JavaScript and [React.js](https://clockwise.software/react-development-company/) for the website user interface
* React Native for the iOS and Android mobile apps
* PostgreSQL database
* Amazon S3 and some other Amazon products for cloud computing services
* Webpack for DevOps tasks

**2. Slack Technology stack**

The Slack system consists of many different services and apps. They have 3 main clients:

\* the web client is written in a mix of JavaScript and ES6, with React.

\* Android client is written in a mix of Java and Kotlin

\* iOS client is written in a mix of Objective C and Swift

On the backend, They have a core application which powers slack.com and API, written in PHP/Hacklang running on HHVM. We store data in MySQL using Vitess. For caching, they use Memcached and MCRouter.Their search service is based on SolrCloud, with various Java services for ranking. Real-time messaging system uses WebSockets and consists of many services written in Java and Go. Most of their services talk to each other over gRPC, though we have some Thrift and JSON-over-HTTP too.voice and video calling service is built in Elixir. A few different services are also written in Node. async task queue system is built on Kafka and Redis.

Data warehouse is built on open source tools, including Presto, Spark, Airflow, Hadoop and Kafka. For server configuration and management they use Terraform, Chef and Kubernetes.

**3. Netflix**

Here are the technology stacks used to build Netflix :

**Programming Languages**

* Java
* JavaScript
* Python
* Kotlin
* Swift

**Libraries & Frameworks**

* React
* WinJS
* Node.JS

**Databases & Cloud Services**

* MySQL
* Cassandra
* Oracle
* Amazon EC2
* Amazon S3
* Atlas-DB

**DevOps**

* GitHub
* Git
* Jenkins
* Gradle
* Apache Mesos
* Vector
* Hub Commander
* AWS Cloud Trail
* Crittercism
* Boundary
* Sumo Logic
* Logic Monitor

**Utilities**

* Amazon SES
* Falcor
* Urban Airship

From: https://www.zype.com/blog/netflix-tech-stack