1. Identify 3 software or technology companies the interest you.
2. Conduct research to figure out some or all of the elements of each company’s technology stack. Check job openings/job descriptions, engineering blogs, and anything else that may have information about what the company uses to write/build it’s software products.
3. Record your findings in a google doc. If you can find information about why the company chose that stack, include that as well.

Note to reviewer, Most of this is copy and pasted, why? Because it said record my findings, not reinvent the wheel, And I looked for simple clear answers. (mostly because this is over my head) I understand what the tech stack is and what categories they are applied to, but do I recognize even a tenth of the listings? Not yet. However, some of those links I placed lead to some really in depth stuff, so if you are interested in learning more give it a click.

Facebook Tech Stack

“The social site Facebook, for example, is composed of a combination of coding frameworks and languages including JavaScript, HTML, CSS, PHP, and ReactJS. This is Facebook’s ‘tech stack.’” retrieved from <https://mixpanel.com/blog/what-is-a-technology-stack/>

**MySQL** - This the main user-facing database; Facebook uses it for storing it’s social graph data.

**MySQL Engine** - MyRocks

**Memcache** - Sits in front of MySQL. Acts as a Cache. Intercepts all the requests to MySQL

**Cassandra** - For Inbox Search

**For Handling BigData (Monitoring, Data Ingestion, Analytics)**

**Apache Hadoop, HBase, Hive, Apache Thrift, PrestoDB**

**Beringei & Gorilla -** For infrastructure monitoring.

**LogDevice** - A distributed data store for storing logs.

Retrieved from <https://www.quora.com/Which-database-system-does-Facebook-use/answer/Shivang-Sarawagi?ch=10&share=0868d104&srid=OEsx>

and  <https://www.scaleyourapp.com/what-database-does-facebook-use-a-1000-feet-deep-dive/>

The Adobe Stack

* Server Layer: Apache
* Language and Framework Layer: ActionScript, AIR, ColdFusion, Flex, and JQuery.
* Design and Development Layer: Acrobat, Dreamweaver, Flash, LiveCycle, and all the famous Adobe graphic design and desktop publishing tools.
* Delivery and Distribution Layer: Day, InSight
* Execution layer: Acrobat Reader X, the AIR runtime environment, Flash Player and WebKit – providing an execution layer for the desktop, browser, and mobile.
* Social and Collaborative Layer: Acrobat.com, Adobe Connect
* Analytics Layer: Omniture

Retrieved from <https://readwrite.com/the-adobe-stack/>

[Adobe](https://www.crunchbase.com/organization/adobe-systems) uses 214 technology products and services including HTML5, Google Analytics, and jQuery, according to [G2 Stack](https://stack.g2.com/). Retrieved from <https://www.crunchbase.com/organization/adobe-systems/technology>

But if you go to Adobe Tech Stack Share it says that for apps and data they use  Appache Cordova and Javascript. DevOps is GIt and Business tools is slack

Microsoft

I threw this one on for fun, Microsoft was too much for me.

But if you go to the Microsoft Dev blogs, they have a filter list and I felt like the filter list was very telling as to what they used. I edited out the ones that were things like an employee name.

* #ifdef Windows
* .NET Blog
* .NET Parallel Programming
* Azure Cosmos DB Blog
* Azure Depth Platform
* Azure DevOps Blog
* Azure Government
* Azure Notification Hubs Blog
* Azure SDK Blog
* Azure SQL Database Devs’ Corner
* C++ Team Blog
* CSE Developer Blog
* DirectX Developer Blog
* IoT Developer
* Java at Microsoft
* Math in Office
* OData
* PIX on Windows
* PowerShell Team
* Python
* Q# Blog
* Scripting Blog
* Surface Duo Blog
* Sustainable Software
* The NuGet Blog
* TypeScript
* Visual Basic Blog
* Visual Studio Blog
* Visual Studio Setup
* Windows AI Platform
* Windows Command Line
* Windows MIDI and Music dev
* Windows Search Platform

Microsoft technology stack includes:

* All development is based on .NET Framework , primary Language is C# but can use any .NET Language.
* [The Official Microsoft ASP.NET Site](http://asp.net/) MVC and HTML5 is the technology they prefer for rapid web application development.
* Window Presentation Foundation (WPF) is our preferred technology for Windows-based smart client applications.
* Windows Communication Foundation (WCF) is what we use to implement tiered service-oriented applications.
* SQL Server and SQL Server Reporting Services is the database technology they have used for many business applications. They also have large scale success with Oracle and DB2 implementations.
* SharePoint is the collaboration tool they often use for enterprise integration.

<https://www.quora.com/What-is-the-Microsoft-technology-stack-all-about/answer/Abhivendra-Singh/log>

CodeAcademy.

According to one Employee Posting they use “We use Ruby on Rails, MongoDB, and lots of JavaScript.” retrieved from <https://www.quora.com/unanswered/What-is-Adobes-technology-stack> (scroll down)

MEAN STACK

(Mongo, Express, Angular and Node)

Companies that use it.

According to <https://www.rswebsols.com/tutorials/programming/mean-tech-stack-development>

LinkedIn, Netflix, Uber, Trello, PayPal, NASA, eBay, Walmart GoDaddy, CitiBank, Groupon, Medium, Mozilla, Yahoo, Yandex.

Why do they use it? Because it helps create large apps more efficiently.

In conclusion

Ironically, I actually feel like I understand quite a bit more about what a tech stack is and which companies use which ones. So thanks for this extra credit opportunity.