

## Extra Credit: Company Stack Research

*Durrant Baum*

**Adobe:** They are a very big software company that has been around for a while. Because of this, they use many different software languages.

- Java and PHP for backend systems and microservices.
- C and C++ for many of their core systems.
- Python, Java, and R for Ai/Machine Learning. Scala, Java, and Python for big data processing in Spark.
- Javascript - React JS and Angular for frontend.
- Others like Go, SQL, Pandas, Tensorflow, etc.

I found many of these on current job offers, like a Data Science/Analytics engineering position.

**Nvidia:** They are primarily focused on designing graphical processing units (GPUs) for gaming and entertainment. They focus on mobile computing and automotive markets as well. They also manufacture parallel processing units and artificial intelligence based hardware and software.

- C is used for core software and drivers that are integrated with their hardware devices.
- C++ is used for Nvidia's automotive software development. This includes a graphical interface, which is why this language was chosen.
- Python is used for its image processing software development and in artificial intelligence implementation.

I found a Deep Learning Tools Developer job position that required experience with Python.

**Discord:** This is a voice call, video call, IM, and media sharing software. They focus on providing social communication between friends/communities.

- React/React Native was used to build the desktop, web, and iOS apps.
- Electron.js is what the desktop client was built on, which allows it to be multi-platform.
- Elixir, Python, Rust, Go, and C++ are all used for the backend of Discord.

Discord employs about 600 people globally and their Senior Data Engineer position recommends you know SQL and Python and have 4+ years of experience in it.