

Technology Glossary for Recruiters

A Guide to Tech Roles,
Skills, and Languages



Contents

| | |
|--|----|
| Introduction | 3 |
| Popular Tech-Related Roles | 4 |
| Programming Languages and Technical Skills..... | 7 |
| Which Tech Roles Require Which Skills..... | 17 |
| About Gild | 20 |

Introduction

The plain truth is this: the tech world changes fast. As a recruiter competing for the best possible talent, how do you manage to stay on top of all the different types of tech roles, programming languages, and which tech roles require which language?

Recruiters oftentimes are salespeople at heart and have inarguable relationship development skills. However, they may lack a degree of technical knowledge that could help them better perform as tech recruiters. This is why we've developed this tech glossary. Now, recruiters of any level of expertise in any industry will be able to have a solid starting point in the tech world. This guide will help you understand:

- **Popular Tech Roles:** what they're called and what they do
- **Programming Languages and Technical Skills:** definitions with a brief description of each
- **Which Tech Roles Require Which Skills:** stop wondering and start searching with greater efficiency

In a tight tech talent market, this glossary can help you communicate more effectively with your clients and the teams that you're recruiting for, as well as with potential candidates. The words you learn in this glossary may seem like just a few simple terms, but they can empower you to talk to developers in their own language and fill high-demand roles with top-notch talent faster than ever.

Popular Tech- Related Roles

If one of your hiring managers came to you and said, “I need a mobile developer,” where would you begin your search? As the way we communicate continues to evolve, so do tech-related roles. For example, today’s mobile developer might only need to be proficient in iOS and Android platforms, but if the Windows phone catches on, there’s a new and growing niche in the mobile development field.

This section of our tech glossary gives you a list of today’s most common tech-related roles - the ones you’ll likely be tasked with filling. We’ll offer a brief overview of each role’s function (though it will vary by company and circumstance), and then a list of the most in-demand programming languages and skills in today’s tech landscape. Finally, we’ll match those roles with the programming and development skills most commonly required. You’ll have everything you need to better understand tech roles, each role’s key technical skills, and how these match up with your recruiting efforts.

B

Back End Developer

Focuses on the source code and other behind-the-scenes programming that makes the software, website, or other application function correctly

Big Data Engineer

Builds large-scale data processing systems; Big Data Engineers organize and process larger-than-average data sets using specialized tools

Build Release Engineer/ Software Release Engineer/ Gatekeeper

(by any of these names)
Responsible for maintaining the code lines, testing software fixes or releases, maintaining the build system, debugging build errors, and so on; does not need to be proficient in coding, but needs to know basic scripting languages

Business Intelligence Analyst

Collects, summarizes, and analyzes data and provides insight into the data used by a business or organization to make decisions

F

Flash Developer

Uses the Flash platform by Adobe to create vector graphics, animation, and games that can be viewed, played, and executed through the Adobe Flash Player. Flash is commonly used to add interactive media such as ads, video, or music to a web page

Front End Developer

Responsible for collecting input in various forms from the user, then processing it to conform to a specification the back end can use

I

Interactive Developer

Develops interactive media, including audio, video, and 3D technologies



Yuriy Groysman
Data Scientist

“As a data scientist, I extract features from complex, high-dimensional data from multiple sources and design scoring and recommendation models using machine learning techniques, such as sparse matrix factorization, topic modeling, heat diffusion models, and deep learning neural nets.”

Core Skills:

[Python](#), [Mongo](#), [Redis](#),
SKLearn, [C](#), Matlab

L

Linux/Unix Developer

Proficient in [Linux](#) or [Unix](#) tools and well-versed in scripting; should be able to customize the Linux/Unix kernel and be able to do user and kernel-level debugging

M

Mobile Developers

Works with one or more of the most common mobile device operating systems

- **Android:** [Linux](#)-based operating system designed primarily for touch-screen mobile devices, such as smartphones and tablet computers
- **iOS:** Operating system developed and is distributed by Apple; used for Apple devices, including iPhones and iPads
- **Blackberry:** Mobile operating system specific to Blackberry devices, different from [Android](#) or [iOS](#)
- **Windows Phone:** Operating system run by Microsoft's Windows Phone that is in the Windows family

Middleware Developer

Experienced in using and/or building frameworks that tie different components of an application together

N

.NET Developer

Intimately familiar with any of the [.NET](#) languages, such as [C#](#), [VB.NET](#), etc. and [.NET](#) stacks, including [ASP .NET](#) and WinForms

O

Oracle Developer

Experienced at using [RDBMS](#), particularly the Oracle Database, and has experience as a database administrator

OS X Developer / Apple Developer

Familiar with [OS X](#) operating system, which is unique to Apple computers; also familiar with the languages and tools used by Apple

P

Program Management

Oversees the status and purpose of all projects within a program, as well as all project-level activities to make sure the program's goals will be met

R

Recommender Engines/ Machine Learning Developer

Experienced in building recommendation systems such as Netflix or Pandora

S

SAP Developer

SAP (Systems, Applications and Products in Data Processing) is the world leader in [ERP \(Enterprise Resource Planning\)](#) software

Responsible for designing software or customizing software for client use with the aim of optimizing operational efficiency

SharePoint Developer

Microsoft SharePoint is a Web application platform developed by Microsoft

Responsible for the design, implementation, integration and support of Microsoft technology and infrastructure solutions

Site Reliability Engineer

Maintains large production environments and ensures that the site is not vulnerable to cyber attacks

Software Architect

Makes high-level design choices and dictates technical standards, including software coding standards, tools, and platforms; has experience as a programmer

W

Web Developer

Specializes in developing applications for the World Wide Web

Windows Engineer

Works on the Windows operating system family by Microsoft

Programming Languages and Technical Skills

With technology and development conventions changing as fast as they do, it's not uncommon to come across a programming language you're not familiar with. To help you quickly get up to speed, use this list as a starting point. It will be useful with the keyword search in your recruiting platform. It can also help you have better conversations with hiring managers and team leaders prior to starting your candidate searches.

A

ABAP

(Advanced Business Application Programming)

High-level programming language created by the German software company SAP; ABAP and [Java](#) are the common languages used to develop on SAP products

ActionScript

Open-source, [OO](#) language developed by Macromedia, Inc.; superset of the syntax and semantics of [JavaScript](#) used to develop websites and software that use the Adobe Flash Player platform.

Agile

Software development methodology based on iterative and incremental development; solutions and requirements evolve through collaboration between self-organizing, cross-functional teams; promotes adaptive learning, evolutionary development and delivery, a time-boxed iterative approach, and encourages a team's rapid and flexible response to change

Ajax

(Asynchronous JavaScript and XML)

Group of interrelated web development techniques used to create asynchronous web applications

Ant

[Open source](#) build tool for automating software build processes; implemented using [Java](#) and uses [XML](#) to describe the build process

Apache HTTP Server

Web server program written in [C](#), developed by the Apache Software Foundation

API

(Application Programming Interface)

Specification of how some software components should interact with each other

Applescript

Scripting language created by Apple Inc. and built into Macintosh operating systems; has some elements of object-oriented programming and natural language programming tendencies in its syntax, but does not strictly conform to either category

ASP

(Answer Set Programming)

Form of declarative programming oriented towards difficult search problems; similar to [Perl](#), [Python](#), and [PHP](#)

ASP .NET

Server-side web application framework used it to create dynamic web pages; built on the CLR (Common Language Runtime), allowing developers to write ASP .Net code on any [.NET](#) language

Assembly

Back end programming language typically used in a system's boot code, the low-level code that initializes and tests the system hardware prior to booting the operating system; an understanding of Assembly could be helpful for a [C](#) or [C++](#) developer

AWK

Scripting language typically used as a data extraction and reporting tool; used on the [Unix](#) operating system

B

Bash Shell

[Unix shell](#) built as a free software replacement for the [Bourne shell](#) (and therefore sometimes referred to as "Bourne Again" Shell); default shell for [Linux](#) and Mac [OS X](#)

BI

(Business Intelligence)

Applications that include the activities of query and reporting, [OLAP \(Online Analytical Processing\)](#), statistical analysis, forecasting, and data mining



Jonathan Foley
Data Scientist

"I work on analyzing data and developing models to predict and recommend developers at Gild."

Core Skills:

[Python](#), [Mongo](#),
[Redis](#), [Git](#), SKLearn, [C](#),
Matlab, [R](#)

Big Data

Collection of data sets so large and complex that it becomes difficult to process using database management tools or traditional data processing applications; using Big Data has led to the creation of specialized databases such as [NoSQL](#) and frameworks like [Hadoop](#)

BigTable

Proprietary data storage system built on Google Technologies

Bourne Shell

[Unix shell](#); the default shell for Unix Version 7

Bourne Again Shell

See [Bash Shell](#)

C

C

General purpose programming language used quite often with low-level programming such as embedded systems, operating systems, and drivers. C is a procedural language, as compared to [C++](#) and [Java](#), which are [OO](#)-based

C++

Programming language that allows programmers to develop in terms of objects that contain both data and methods; runs on a variety of platforms, such as Windows, [OSX](#), and [Unix](#); is a multi-paradigm, and supports [OO](#) and other useful styles of programming and development based on [C](#)

C#

pronounced “C-sharp”

Part of the [.NET](#) framework; syntax is similar to the syntax of [C](#) and [C++](#), with minor variations; designed to be an [OO](#) language

Camping

Framework written in [Ruby](#)

Cascades

[UI](#) framework for Blackberry

Cassandra

[Open source](#) distributed database management system; [NoSQL](#) solution used to handle very large amounts of data

CI

(Continuous Integration)

Practice aimed at preventing integration problems that merges all developer workspaces with a shared mainline several times a day

ClearCase

Family of software tools that support [SCM \(software configuration management\)](#) of source code and other software development assets; supports two kinds of use models: [UCM \(Unified Change Management\)](#) and base [ClearCase](#)



Neha Karajgikar
Back End Engineer

“I work on the back end team on Gild Source, where I design and write code to add to the data we have in our system.”

Core Skills:

[Ruby](#), [Ruby on Rails](#),
[Redis](#), [Mongo](#)

COBOL

(Common Business-Oriented Language)

One of the oldest programming languages used in business, finance, and administrative systems for companies and governments

Cobra

[Open source](#), general-purpose, [OO](#) programming language that runs on the Microsoft [.NET](#) and [Mono](#) platforms, and is strongly influenced by [Python](#), [C#](#), [Eiffel](#), and [Objective-C](#)

Cocoa

Object-oriented [API](#) that is native to Apple's [OSX](#); typically developed using tools provided by Apple, such as Xcode and Interface Builder, using [Objective-C](#)

Cocoa Touch

[API](#) related to Cocoa used for the [iOS](#) operating system

Coffeescript

Compiles (translates) into [JavaScript](#)

Cognos

IBM's business intelligence and performance management software suite designed to enable business users without technical knowledge to extract corporate data, analyze it and assemble reports

COM

(Component Object Module)

Basis of several Microsoft technologies and frameworks

CORS

(Cross-Origin Resource Sharing)

[HTML5](#) feature that allows one site to access another site's resources despite being under different domain names

CouchDB

(Cluster of Unreliable Commodity Hardware)

[Open source](#), document-oriented [NoSQL](#) database by Apache that is accessed using a [RESTful JSON API](#); extremely scalable, with high reliability; [Javascript](#) is the query language using [MapReduce](#) and [HTTP](#) for an [API](#)

csh

(C Shell)

[Unix shell](#)



Duilio Ruggiero
Web Application Developer

“I work on the server side of the web application, showing the elaborated data to the client side or to other applications (via REST API).”

Core Skills:

[Ruby](#), [Ruby on Rails](#), [Sinatra](#), Grape, Cucumber, RSpec, [Mongo](#), [Redis](#), [Git](#)

CSS

(Cascading Style Sheets)

Style sheet language used to describe the presentation semantics (the look and formatting) of a document written in a markup language

CSS3

Latest standard for [CSS](#)

CVS

(Concurrent Versions System)

Client-server free software revision control system popular with open source developers that keeps track of all work and tracks changes on files, allowing developers to collaborate

D

DCOM

(Distributed Component Object Model)

Proprietary Microsoft technology for communication among software components distributed across networked computers

Debian

Operating system composed of [open source](#) software packages; one of the most popular [Linux](#) distributions

Django

[Open source](#) web application framework written in [Python](#)

DOS

(Disk Operating System)

Able to access hardware directly, making it popular for use in embedded devices

Dynpro / WebDynpro

Framework for development of user interface for use with SAP NetWeaver; supports programming for platform such as [Java](#), [ABAP](#), [.NET](#)

E

Eiffel

[OO](#) language that emphasizes declarative statements over procedural code; often compiled into [C](#)

Emacs

Family of text editors that are characterized by their extensibility

ERP

(Enterprise Resource Planning)

System that integrates internal and external management of information across an entire organization

ETL

(Extract, Transform and Load)

Process in database usage and data warehousing that involves: extracting data from outside sources, transforming it to fit operational needs, and loading it into the end target

F

Frameworks

Reusable set of libraries or classes used to develop applications and products; include support programs, compilers, code libraries, tool sets, and [APIs](#)

G

Git

Distributed revision control and source code management system that places an emphasis on speed, allowing developers to track revisions and history; not dependent on network access or a central server

Go

(Golang)

[Open source](#) language designed for fast compiling and efficient garbage-collection (automatic memory management); syntax is similar to that of [C](#); it is important to note that it is separate from Go! (a logic-based language)

Gradle

Project automation tool that builds upon [Ant](#) and [Maven](#) designed for multi-project builds that can grow fairly large and supports incremental builds; associated languages include [Java](#), [Groovy](#), and [Scala](#)

Groovy

[OO](#) language used for scripting on the [Java](#) platform; a dynamic language with similar features to those of [Python](#), [Ruby](#), and [Perl](#)

H

Hadoop

Software library framework by Apache that allows for the distributed processing of large data sets across clusters of computers using simple programming models

HBase

[Open source](#), non-relational, distributed database, modeled after Google's [BigTable](#) and written in [Java](#); it runs on top of [HDFS \(Hadoop Distributed Filesystem\)](#)

HDFS

([Hadoop Distributed File System](#)) File system written in [Java](#) for the [Hadoop](#) framework

HTML

([HyperText Markup Language](#)) Main markup language for creating web pages and other information that can be displayed in a web browser; HTML elements form the building blocks of all languages

HTML5

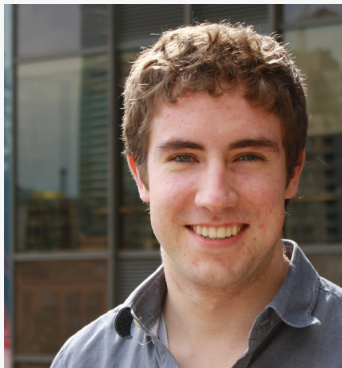
Fifth revision of [HTML](#) which contains new syntactic features that were not previously available and was built with the consideration of being able to run well on mobile devices

HTTP

([Hypertext Transfer Protocol](#)) Foundation of data communication for the World Wide Web

Hudson

[CI \(Continuous Integration\)](#) tool written in [Java](#); supports [SCM \(Source Code Management\)](#) tools including [CVS](#), [SVN \(Subversion\)](#), [Git](#), [Perforce](#), and [ClearCase](#)



Jake Magner
Data Scientist

"I work on data cleaning, data mining, and algorithm development to improve Gild's products, make predictions, and gain insights."

Core Skills:

[Python](#), [Mongo](#), [Redis](#),
SKLearn

I

IDE

([Integrated Development Environment](#)) Software application that consists of a source code editor, build automation tools, and a debugger

iOS

Operating system for Apple's mobile devices, including iPhone, iPod, and iPad products

J

J2EE

([Java 2 Platform, Enterprise Edition](#)) Platform-independent, [Java](#)-centric environment for developing, building and deploying Web-based enterprise applications online

Java

General-purpose, [OO](#) language; one of the most popular programming languages in use, particularly for client-server web applications

Java Bytecode

Form of instructions that the [Java](#) virtual machine executes; not necessary for a Java programmer to be aware of or understand Java bytecode at all

JavaScript

Dynamic, [OO](#), general-purpose, programming language best known as the scripting language for web pages, but is also used in many non-browser environments

Java EE

([Java Platform, Enterprise Edition](#)) Oracle's enterprise [Java](#) platform

Java RMI

([Remote Method Invocation](#)) [Java API](#) that allows a program to execute subroutines both locally or remotely (on another computer) using essentially the same code

JBoss

Application server written in [Java](#) that implements [Java EE](#); recently renamed "Wildfly"

Jenkins

Open source CI (Continuous Integration) tool that is written in Java; forked from Hudson and supports SCM tools including CVS, Git, Perforce, SVN (Subversion), Mercurial, and ClearCase

JMS

(Java Message Service)

API that sends messages between 2 or more clients; part of the Java EE platform

jQuery

Free, open source JavaScript library used to navigate HTML documents, handle events, perform animations and add Ajax interactions to Web pages

JRuby

Ruby language interpreter that is written in Java; allows full two-way access between the Java and Ruby code

JSON

(JavaScript Object Notation)

Text-based open standard designed for human-readable data interchange

JVM

(Java Virtual Machine)

Virtual machine that can execute Java bytecode

K

Kernel

Main component of most operating systems; acts as a bridge between data processing at the hardware level and applications

ksh

(Korn Shell)

Unix shell that is backwards compatible with Bourne Shell and includes many features of C Shell

L

Linux

Operating system assembled with open source software; similar to Unix

LUA

Gaming framework for iOS

M

Make

Utility that builds programs and libraries automatically from source code especially popular in Unix

MapReduce

Programming model for processing large data sets

Maven

Build automation tool that is primarily used for Java projects

Merb

(Mongrel+Erb)

Model-view-controller web framework written in Ruby

Mercurial

Free, distributed source control management tool

Mongo

Open source, document-oriented database that is part of the NoSQL family of databases; written in C++

Mono

Software platform designed to allow developers to easily create cross platform applications for iPhone and Android-based smartphones

MonoTouch

Software development kit developed by Xamarin that allows developers to create iPhone applications using C# and the .NET framework

MySAP

E-business software integration tool for SAP

MySQL

pronounced "My S-Q-L"

Widely used open source RDBMS (Relational Database Management System) (Relational Database Management System) that runs as a server and provides multi-user access to multiple databases; written in C and C++

MVC

(Model View Controller)

Architecture for building interactive applications that lies at the heart of the Ruby on Rails



Marius Colacioiu
Front End Developer

"I work on the front end team on Gild Source, making sure recruiters and customer sales requests get fully implemented in time."

Core Skills:

Ruby, Javascript, Git,
ElasticSearch

framework

N

.NET

.NET is a framework that runs primarily on Windows

Netweaver / SAP Netweaver
SAP's integrated technology computing platform and is the technical foundation for many SAP applications

Nitro

Web development library for the [Ruby](#) language

NoSQL

(Not Only SQL)

Database designed for distributed data stores for very large scale data needs; examples are [Mongo](#), [CouchDB](#), and [Redis](#)



Francesco Laurita
VP of Engineering

"I work within Gild's software stacks, mainly focused on our back end data analysis system. As a VP of Engineering I'm also responsible for all of the technical decisions behind our products."

Core Skills:

[Ruby](#), [Ruby on Rails](#), [Java](#), [C](#), [C++](#), [NoSQL](#)

O

Objective-C

Main programming language used by Apple for the [OS X](#) and [iOS](#) operating systems

Objective-C++

Language that can compile files that use a combination of [Objective-C](#) and [C++](#) syntax; adds the same extensions to C++ that Objective-C adds to [C](#)

OData

(Open Data Protocol)

Data access protocol for querying and updating data from Microsoft

OEM

(Original Equipment Manufacturer)

Manufacturers who resell another company's product under their own name and branding

OLAP

(Online Analytical Processing)

Computer processing that enables a user to easily and selectively extract and view data from different points of view

OO Programming Languages

(Object-Oriented)

Programming methodology organized around objects instead of actions; objects are organized into classes, which allow individual objects to be grouped together to design applications and computer programs; [Java](#), [C++](#), and [C#](#) are examples of OO languages

Open Source

Philosophy that promotes free redistribution and access to an end product's design and implementation details

Operating Systems

Collection of software that manages computer hardware resources and provides common services for computer programs; examples include: [Android](#), [iOS](#), [Linux](#), [OS X](#), and Windows

Oracle Database

Object-relational database management system produced and marketed by Oracle Corporation

OS X

Series of [Unix](#)-based graphical interface operating systems developed, marketed, and sold by Apple Inc.

P

Perforce

Revision control system

Perl

Family of high-level, general-purpose, dynamic programming languages that borrows features from [C](#), [Shell Scripting](#), [AWK](#), and [sed](#); been nicknamed the "Swiss Army chainsaw of scripting languages" because it is flexible and powerful

PHP

[Open Source](#), server-side, scripting language designed to produce dynamic web pages for web development; similar to [Perl](#), [Python](#), and [ASP](#)

Protocol Buffer

Method of serializing structured data, helpful when developing programs to communicate with each other or for storing data

Puppet

[Open source](#) [SCM](#) tool written in [Ruby](#) and designed to manage the configuration of [Linux](#) and Windows operating systems declaratively

Python

[Open source](#), [OO](#), extensible, programming language; similar to [Perl](#), [PHP](#), and [ASP](#)

R

R

[OO](#), free software programming language widely used among statisticians and data miners

Rails

See [Ruby on Rails](#)

RDBMS

(Relational Database Management System)

Predominant choice for storage of information in new databases; most employ [SQL](#); special system software used to manage the organization, storage, access, security, and integrity of data

Redis

[Open source](#), networked, in-memory, key-value data store, often referred to as a data structure server since keys can contain strings, hashes, lists, sets and sorted sets

REST

(Representational State Transfer)

Style of software architecture for distributed systems such as the World Wide Web; the predominant web [API](#) model

RESTful JSON

Series of conventions for: URLs, [HTTP](#) methods, HTTP headers, [JSON](#) fields

RHEL

(RedHat Enterprise Linux)

[Linux](#)-based operating system

RPC

(Remote Procedural Call)

Form of communication that allows a program to execute subroutines both locally or remotely (on another computer) using essentially the same code

Ruby

Dynamic, reflective, general-purpose, [OO](#), programming language

Ruby on Rails

[Open source](#), full stack, web application framework that runs on [Ruby](#)



Jade Dominguez
Front End Developer

“I create and maintain Gild’s customer-facing web-based applications.”

Core Skills:

[Ruby](#), [Javascript](#), [HTML](#), [CSS](#), ElasticSearch

S

SAP

(Systems, Applications, and Products in Data Processing)

German software company whose products allow businesses to track customer and business interactions; well-known for its [ERP \(Enterprise Resource Planning\)](#) and data management programs

SAP NetWeaver

Provides the development and runtime environment for SAP applications and can be used for custom development and integration with other applications and systems

SAS

(Statistical Analysis System)
pronounced “sass”

Integrated system of software products by the SAS Institute; software used to perform powerful and comprehensive statistical analysis on data sets

Scala

Object-oriented, imperative language intended to be compiled to [Java bytecode](#) or [.NET](#)

SCM

(Software Configuration Management)

Task of tracking and controlling changes in the software, part of the larger cross-discipline field of configuration management

SCM

(Source Code Management)

Management of changes to programs, web sites, and documents; also known as revision control

Scripting

Another term for programming

SDK

(Software Development Kit)

Set of software development tools that allows for the creation of applications for a software package, framework, hardware platform, computer system, operating system, or similar development platform

sed

(Stream Editor)

[Unix](#) utility that parses text and implements a programming language which can apply transformations to such text

SharePoint

Software platform and an online collaboration tool developed by Microsoft

Shell

Provides an interface to access the services of a kernel; term can also apply to any software that is built around a particular component, like web browsers

Shell Scripting

Script written for the shell, or command line interpreter, of an operating system; often considered a simple domain-specific programming language

Sinatra

Sinatra is an open source library and domain-specific language written in [Ruby](#); alternative to [Ruby on Rails](#), [Merb](#), [Nitro](#), and [Camping](#)

SOA

(Service-Oriented Architecture)

Software design and architecture design pattern that allows easy cooperation of multiple computers connected over a network

SOAP

(Simple Object Access Protocol)

Protocol specification for exchanging structured information that relies on [XML](#) information set for its message format

SQL

(Structured Query Language)

Designed for managing data held in a [RDBMS \(Relational Database Management System\)](#)

SQL Server

[RDBMS \(Relational Database Management System\)](#) developed by Microsoft

SSAS

(SQL Server Analysis Services)

[OLAP \(Online Analytical Processing\)](#) data mining and reporting tool in [SQL Server](#)

SSIS

(SQL Server Integration Services)

Component of the [SQL Server](#) database software that can be used to perform a broad range of data migration tasks

SSRS

(SQL Server Reporting Services)

Server-based report generation software system from Microsoft

SVN

(Subversion)

Software versioning and revision control system distributed under an open source license

SVN

(Support Vector Network)

Supervised learning models that can analyze data and recognize patterns, used for classification and regression analysis and in machine learning

T

TCP/IP

Suite of communication protocols used for the Internet

Teradata

Fully scalable relational database management system produced by Teradata Corp; widely used to manage large data warehousing operations

U

UCM

(Unified Change Management)

[OO](#) realization of [ClearCase](#), a set of software tools typically supporting the process area software configuration management

Unit-testing

Method by which units of source code, sets of computer program modules with associated control data, usage procedures, and operating procedures, are tested to determine if they are fit for use

Unix

Multitasking, multi-user operating system; first developed using [Assembly](#), but has been almost completely recoded in [C](#)

Unix Shell

Program that interprets commands and acts as an intermediary between the user and the inner workings of the operating system

UI

(User Interface)

The space where interaction between humans and machines occurs



Matt Bailey
Operations Engineer

“At Gild I wrangle cloud infrastructure, architect automation, and ensure service uptime.”

Core Skills:

GNU/[Linux](#), Chef, AWS, EC2, [Ruby](#), Nagios



Ignazio Setti
Front End Developer

“I create and manage customer-facing web applications.”

Core Skills:

[Ruby](#), [Javascript](#), [Mongo](#),
[Redis](#)

V

VB.NET

(Visual Basic .NET)

[OO](#) language implemented on the [.NET](#) framework

Verilog

HDL (Hardware Description Language) used to model electronic systems

VHDL

(VHSIC Hardware Description Language)

HDL (Hardware Description Language) used in the automation of electronic design to describe mixed-signal and digital systems

Visual Basic

Third-generation event-driven programming language and [IDE \(Integrated Development Environment\)](#) from Microsoft for its [COM](#) programming model first released in 1991

W

Web Services

Method of communication between two devices over the World Wide Web

WebSocket

Web technology which defines an [API](#) establishing “socket” connections between a web browser (client) and a server

Weka

Suite of machine learning software that is written in [Java](#)

Wildfly

See [JBoss](#)

Windows CE

(Windows Embedded Compact)

Operating system that Microsoft licenses out to [OEMs](#) and device makers; designed WinCE for embedded systems

Windows Server

Series of server operating systems released by Microsoft

WSDL

(Web Services Description Language)

[XML](#)-based interface description language used to describe the functionality offered by a web service

X

XHTML

(Extensible HyperText Markup Language)

Family of [XML](#) markup languages that mirror versions of [HTML](#)

XML

(Extensible Markup Language)

Markup language that defines a set of rules for encoding documents in a format that is both machine-readable and human-readable

XSL

(Extensible Stylesheet Language)

Language for expressing style sheets; an XSL style sheet is a file that describes how to display an [XML](#) document of a given type

Which Tech Roles Require Which Skills

This is where the rubber meets the road. We've given you an overview of the most common tech roles in today's market. We followed those roles with a primer in programming and development languages. In this section, we'll show you the match-up between the most common tech roles and the skills each might require.

We've tried to be as comprehensive as possible in including all of the skills each role might demand. We recommend having a conversation with your hiring manager or the technical team lead prior to starting the recruiting process so you know exactly which skills are needed for a given job. An idea: you can print out the page of this glossary with the tech role you're going to recruit for and share it with the hiring manager. Ask the hiring manager to circle the skills/languages that are most important, if there's any doubt. It's one small extra step, but it can save you time when you need to target candidates with specific skill sets.

Back End

| | |
|---------------------------------------|---|
| Back End Developer | <p>Skills: C#, Java, PHP, Python, Ruby</p> <p>Similar Skill Set: CVS, GIT</p> <p>Java: JDBC, Hibernate, Spring, JBoss, Apache, Tomcat, Webservers, Maven, Eclipse, NetBeans; Perforce, PHP: Unix, MySQL</p> <p>Python: Unix, MySQL, SVN</p> |
| Business Intelligence Analyst | <p>Skills: Business-intelligence, BI, C, C++, C#, Cognos, ETL, Java, jQuery, Objective-C, R, SQL, SAS, SSAS, SSIS, SSRS, Visual Basic, SAPUI5 - CSS, CSS3, HTML5, Javascript, OData</p> <p>Dynpro - ABAP, Dynpro</p> |
| Data Engineer | <p>Skills: C, C++, Cassandra, HBase, HDFS, Java, Puppet, Ruby, Scala</p> <p>Similar Skill Set: Hadoop, MapReduce, Mongo, Perl, Python</p> |
| Data Mining | <p>Skills: Perl, Python</p> |
| Linux/Unix Proficient Developers | <p>Skills: AWK, Debian, Emacs Fedora, Linux, Linux-kernel, RHEL, Unix, vi, vim</p> <p>Shell Scripting: Bourne Shell, Bash, Korn, C Shell</p> <p>Scripting: PHP, Python, Perl</p> |
| Machine Learning/ Recommender Engines | <p>Skills: Java, Perl, Python, R, Weka</p> |
| Oracle Developer | <p>Skills: ASP, .NET, SQL</p> <p>Databases: MySQL, Oracle, PostgreSQL, RDBMS</p> |
| SAP Developer | <p>Skills: ABAP, C++, COBOL, ERP, mySAP, Netweaver, Java, SAP</p> |
| Site Reliability Engineer | <p>Skills: Authentication/Authorization, Cloud, HTTP, Linux/Unix, SQL, Network Design, Security, performance, and disaster recovery, SSL, TCP/IP</p> |
| Software Architect | <p>Skills: .NET, Agile, Ant, API, C++, Cassandra, CORS, CouchDB, Git, HTTP, Java, Maven, Mongo, MySQL, MVC, Oracle, Perl, PHP, Python, Redis, Ruby, SOA, SDK, Teradata, Unit-testing, Websocket</p> |

Note: Languages will vary by company

Note: This will vary by company, search on languages, frameworks, APIs, tools, databases, etc.

Big Data

| | |
|---------------------------------------|---|
| Big Data Engineers | <p>Skills: Cassandra, Cloud Computing, Hadoop, HBase, MapReduce, Mongo</p> <p>Similar Skill Sets: Accumulo, Hypertable, Nutch, Pentaho, Sector/Sphere</p> |
| Data Engineer | <p>Skills: C, C++, Cassandra, HBase, HDFS, Java, Puppet, Ruby, Scala</p> <p>Similar Skill Set: Hadoop, MapReduce, Mongo, Perl, Python</p> |
| Data Mining | <p>Skills: Perl, Python</p> |
| Machine Learning/ Recommender Engines | <p>Skills: Java, Perl, Python, R, Weka</p> |
| Oracle Developer | <p>Skills: ASP, .NET, SQL</p> <p>Databases: MySQL, Oracle, PostgreSQL, RDBMS</p> |
| Platforms Infrastructure | <p>Skills: C, C++, Cassandra, HDFS, Go, HTTP, Java, MySQL</p> |

Front End and UX

| | |
|-------------------------------|---|
| .NET Developer | <p>Skills: ASP, ASP.NET, C#, VB.NET</p> <p>Similar Skill Sets: Java, J2EE, other OO languages</p> |
| Cocoa Developer/OSX Developer | <p>Skills: Apple, Applescript, Cocoa, Cocoa Touch, iOS, Objective-C, Objective C++, OSX, Xcode</p> <p>Similar Skill Sets: MVC</p> |
| Flash Developer | <p>Skills: ActionScript, Flash</p> |
| Front End Developer | <p>Skills: ActionScript, Ajax, ASP, CoffeeScript, CSS, Flash, HTML, HTML5, JavaScript, jQuery,</p> <p>Similar Skill Sets: Ruby on Rails</p> |
| Interactive Developer | <p>Skills: Ajax, CSS, HTML, JavaScript, PHP, XHTML</p> |
| Rails Developer | <p>Skills: Ruby, Ruby-HTML, Ruby on Rails</p> |
| SharePoint Developer | <p>Skills: Ajax, ASP.NET, C#, CSS, HTML, JavaScript, SharePoint, SQL, Windows Server, VB.NET, XML, XSL</p> |
| Web Developer | <p>Skills: Web-Development</p> |
| Windows Developer | <p>Skills: ASP, C, C#, C++, .NET, Windows</p> |

Middleware

| | |
|----------------------|--|
| Middleware Developer | Skills: Cobra , DCOM , Java RMI , REST , RPC , SOA , SOAP , Web Services , WSDL , XML |
| Data Engineer | Skills: C , C++ , Cassandra , HBase , HDFS , Java , Puppet , Ruby , Scala Similar Skill Set: Hadoop , MapReduce , Mongo , Perl , Python |
| J2EE Developer | Skills: EJB (Enterprise Java Beans), Java , J2EE Drivers: Hibernate , JDBC , ODBC Frameworks: Spring , MVC , Struts Servers: JBoss , Apache , Tomcat |
| Rails Developer | Skills: Ruby , Ruby-HTML , Ruby on Rails |

Mobile

| | |
|-------------------------|---|
| All Mobile Development | Skills: Multithreading , Event-handling , Memory-management |
| Android Developer | Skills: C , C++ , HTML5 , Java , Linux Similar Skill Set: ADT (Android Development Tools) |
| Blackberry Developer | Skills: C , C++ , Cascades , HTML5 , Java , QT |
| iOS Developer | Skills: C , Cocoa , HTML5 , LUA , Objective-C Similar Skill Sets: MonoTouch , Xamarin iOS , Titanium SDK |
| OSX Developer | Skills: Cocoa , Cocoa Touch , Objective-C , Objective-C++ , OSX , Xcode |
| Web Developer | Skills: Ajax , ASP , CoffeeScript , CSS , HTML , JavaScript , jQuery , JRuby , PHP , Ruby , Ruby on Rails |
| Ruby on Rails Developer | Skills: Ruby , Ruby-HTML , Ruby on Rails |
| Interactive Developer | Skills: Ajax , CSS , HTML , JavaScript , PHP , XHTML |
| .NET Developer | Skills: ASP , ASP.NET , C# , VB.NET Similar Skill Sets: Java , J2EE , other OO languages |

Other

| | |
|--------------------|--|
| Embedded Developer | Skills: C , C++ , Embedded , Firmware , Memory-Management , Microcontroller , Microprocessor , Multi-Threading , VHDL , Verilog |
| Platform Skills | Skills: Apache , C , C++ , CI , Dom/Sax , ClearCase , CVS , Git , Perforce , SVN , J2EE , Java , JBoss , JRuby , JMS , JVM , Maven , .NET , OO , PHP , Python , RMI , Ruby , Ruby on Rails , SOA , Tomcat , Unix , Web Services , WSDL , XML |

Quality Assurance

| | |
|---|--|
| Build Release Engineer/Software Release Engineer/Gatekeeper | Skills: Scripts : Maven , Perl , Python , Shell , TCL Repository Tools : ClearCase , Git , Perforce , SVN (Subversion) Languages : C++ , OO languages Build tools : Aardvark , Ant , Gradle , Hudson , Jenkins , Make , Maven |
|---|--|

About Gild

To Learn More

email info@gild.com

call (800) 664-2366

visit gild.com/learn-more-Gild

Tech recruiting has been begging for innovation. That's why Gild is here.

Bringing meritocracy to tech hiring, Gild's recruiting solutions harness the power of data to liberate you from the challenges of finding developers.

About Gild Source

Gild Source can dramatically improve how you hire developers. Gild Source is tech recruiting software that helps you solve the challenge of how to effectively recruit developers, by enabling you to easily find and target candidates you know are good.

Using patent-pending technology to analyze programmers' actual code and professional contributions from open source communities and Q&A sites, Gild has **profiled, scored, and ranked millions of developers.** Gild's scores and rankings provide you with an instant assessment of a developer's skills and experience.

With Gild Source:

- Search for developers using multiple criteria like coding skills, title, or location
- Access comprehensive profiles of developers
- Email candidates directly

