Pathfinder IT Terms Guide

General IT & Networking

IT: Information Technology

LAN: Local Area Network

WAN: Wide Area Network

IP: Internet Protocol

ISP: Internet Service Provider

DNS: Domain Name System

DHCP: Dynamic Host Configuration Protocol

MAC: Media Access Control

TCP: Transmission Control Protocol

UDP: User Datagram Protocol

VPN: Virtual Private Network

HTTP: HyperText Transfer Protocol

HTTPS: HTTP Secure

FTP: File Transfer Protocol

SSH: Secure Shell

URL: Uniform Resource Locator

NAT: Network Address Translation

SSL: Secure Sockets Layer

TLS: Transport Layer Security

Software Development

API: Application Programming Interface

SDK: Software Development Kit

IDE: Integrated Development Environment

OOP: Object-Oriented Programming

UI: User Interface

UX: User Experience

CLI: Command Line Interface

MVC: Model View Controller

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DOM: Document Object Model

JSON: JavaScript Object Notation

XML: eXtensible Markup Language

CRUD: Create Read Update Delete

REST: Representational State Transfer

SOAP: Simple Object Access Protocol

DBMS: Database Management System

SQL: Structured Query Language

NoSQL: Non-Relational Database

ORM: Object-Relational Mapping

CI/CD: Continuous Integration / Continuous Deployment

TDD: Test Driven Development

Programming Languages & Tools

JS: JavaScript

HTML: HyperText Markup Language

CSS: Cascading Style Sheets

JSX: JavaScript XML

TS: TypeScript

PHP: PHP: Hypertext Preprocessor

SASS: Syntactically Awesome Stylesheets

SCSS: Sassy CSS

YAML: Yet Another Markup Language

SQL: Structured Query Language

Bash: Bourne Again Shell

Git: Version Control Tool

NPM: Node Package Manager

VSCode: Visual Studio Code

REPL: Read Evaluate Print Loop

LTS: Long-Term Support

CDN: Content Delivery Network

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JWT: JSON Web Token

Web & Hosting

CMS: Content Management System

SEO: Search Engine Optimization

UX/UI: User Experience / Interface

UXD: User Experience Design

SaaS: Software as a Service

PaaS: Platform as a Service

IaaS: Infrastructure as a Service

CORS: Cross-Origin Resource Sharing

SSR: Server-Side Rendering

CSR: Client-Side Rendering

TLD: Top-Level Domain

Cybersecurity

DDoS: Distributed Denial of Service

XSS: Cross Site Scripting

CSRF: Cross Site Request Forgery

MFA: Multi-Factor Authentication

2FA: Two-Factor Authentication

MITM: Man In The Middle

IPS: Intrusion Prevention System

IDS: Intrusion Detection System

ACL: Access Control List

RDP: Remote Desktop Protocol

Zero-Day: Undisclosed software vulnerability

CVE: Common Vulnerabilities and Exposures

EDR: Endpoint Detection and Response

SOC: Security Operations Center

Pathfinder IT Terms Guide

Cloud & DevOps

AWS: Amazon Web Services

GCP: Google Cloud Platform

Azure: Microsoft Cloud Platform

CI/CD: Continuous Integration / Continuous Delivery

IaC: Infrastructure as Code

DevOps: Development & Operations

Kubernetes: Container Orchestration System

Docker: Containerization Tool

Helm: Kubernetes Package Manager

Terraform: IaC Tool by HashiCorp

Ansible: Automation Tool

Jenkins: Automation Server

Data & AI

AI: Artificial Intelligence

ML: Machine Learning

DL: Deep Learning

NLP: Natural Language Processing

ETL: Extract Transform Load

BI: Business Intelligence

DB: Database

RDBMS: Relational Database Management System

KPI: Key Performance Indicator

ROC: Receiver Operating Characteristic

GPU: Graphics Processing Unit

CPU: Central Processing Unit