❖ Languages and frameworks.

1. Python

- **Web Development**: Django, Flask, FastAPI, Pyramid

- **Machine Learning & AI**: TensorFlow, PyTorch, scikit-learn

- **Data Science**: Pandas, NumPy, Matplotlib

- **Game Development**: Pygame

- **Automation**: Selenium, Scrapy

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2. JavaScript

- **Frontend Frameworks**: React, Angular, Vue.js, Svelte

- **Backend Frameworks**: Node.js, Express.js, NestJS, Meteor

- **Mobile Development**: React Native, Ionic, NativeScript

- **Full Stack Frameworks**: Next.js, Nuxt.js

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3. Java

- **Web Development**: Spring, Spring Boot, Struts, JavaServer Faces (JSF)

- **Mobile Development**: Android SDK

- **Enterprise Applications**: Hibernate, JBoss, Vaadin

- **Game Development**: libGDX, jMonkeyEngine

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4. C#

- **Game Development**: Unity, MonoGame, Godot

- **Web Development**: ASP.NET Core, Blazor

- **Desktop Applications**: WPF, Windows Forms

- **Mobile Development**: Xamarin, .NET MAUI

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5. PHP

- **Web Development**: Laravel, Symfony, CodeIgniter, CakePHP, Yii

- **Content Management Systems**: WordPress, Joomla, Drupal

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6. Ruby

- **Web Development**: Ruby on Rails, Sinatra, Hanami

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7. C++

- **Game Development**: Unreal Engine, CryEngine, Cocos2d-x
- **GUI Development**: Qt, wxWidgets
- **High-Performance Applications**: Boost, POCO C++ Libraries

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8. Kotlin

- **Mobile Development**: Android SDK (native Kotlin support)
- **Web Development**: Ktor, Spring Boot
- **Cross-Platform Development**: Kotlin Multiplatform

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9. Swift

- **Mobile Development**: iOS SDK (native support for Apple devices)
- **Web Development**: Vapor, Perfect, Kitura

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10. Go (Golang)

- **Web Development**: Gin, Echo, Beego, Fiber
- **Microservices**: Go-Kit, Micro
- **API Development**: KrakenD

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11. Rust

- **Web Development**: Rocket, Actix-Web, Warp
- **Game Development**: Amethyst, Bevy
- **Systems Programming**: Tokio, Async-std

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12. R

- **Data Science**: Shiny, ggplot2, dplyr

- **Machine Learning**: caret, mlr3

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13. TypeScript

- **Frontend Frameworks**: Angular, Vue.js, Svelte (used with JavaScript frameworks)
- **Backend Frameworks**: NestJS, LoopBack

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14. Dart

- **Mobile Development**: Flutter
- **Web Development**: Aqueduct, Shelf

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15. Scala

- **Web Development**: Play Framework, Scalatra
- **Big Data**: Apache Spark (written in Scala)

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16. Perl

- **Web Development**: Dancer, Catalyst, Mojolicious
- **Text Processing**: Perl itself excels without additional frameworks.

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17. SQL

- **Database Management**: MySQL, PostgreSQL, SQLite, SQL Server
- **Big Data**: Apache Hive, Presto

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18. Shell Scripting (Bash, etc.)

- **Automation & System Management**: No frameworks; relies on tools like cron, awk, sed.