CSE JOB SECTOR && FUTURE PLAN

Data Scientists:

Languages:

python, java, mastery in mathematics and statistics.

Work:

Help organization to make objective decision.

RoadMap: Data Science Learning Roadmap for 2021 (freecodecamp.org).

Data Science Roadmap 2023: Learn To Become a Data Scientist (skillslane.com).

Backend Web Developer:

Languages:

c#,java,python,PHP,ASP.NET.

Work:

Write server side web Application, write web services.

RoadMap: Backend Developer Roadmap

FRONTend Developer:

Languages:

HTML,CSS,BOOTstrap,JavaScript(jquery,ajax,vue.js,node.js,angular.js,nuxt.js)

Work:

Implementing Visual elements of a website.

RoadMap: Frontend Developer Roadmap

FULL Stack Developer:

Languages:

c#,java,python,PHP,ASP.NET,

HTML, CSS, BOOTstrap, JavaScript(jquery, ajax, vue.js, node.js, angular.js, nuxt.js)

Work

Fulfill roll of Frontend and Backend.

RoadMap: Ultimate RoadMap to Become Full Stack Developer in 2023 - DEV

Community

Full Stack Developer Roadmap

IOT Engineer:

Work:

Develop, mange, monitor IOT devices

RoadMap:

Roadmap For How To Become An IoT Engineer, Internet Of Things (cselectricalandelectronics.com)

mahmoodfathy/IoT-Roadmap: A Roadmap to become an IoT developer either an embedded or IoT Application Developer, this roadmap is highly subjective but it reflects the market and can be further developed (github.com)

Roadmap and Resources to Become an IoT Engineer | by Karthik Bhandary | DataDrivenInvestor

Android Developer:

Languages:

kotlin, java

Work:

Create ,architect android application.

RoadMap:

Android Developer Roadmap: Learn to become an Android developer

skydoves/android-developer-roadmap: M. The 2023 Android Developer Roadmap suggests learning paths to understanding Android development. (github.com)

IOS App Developer:

Languages:

swift

Work:

Create, architect iphone application.

RoadMap:

BohdanOrlov/iOS-Developer-Roadmap: Roadmap to becoming an iOS developer in 2018. (github.com)

iOS Developer Roadmap 2022 - DEV Community

Game Developer:

Languages:

C Sharp or C++

Work:

Plan, Design, Produce Video game

RoadMap:

<u>utilForever/game-developer-roadmap: Roadmap to becoming a game developer in 2022</u> (github.com)

The 2020 Game Developer Roadmap (programming-hero.com)

Database Administrator:

Languages:

SQL(mastery)

Work:

Responsible for designing overall database schema (tables & fields) and so on.

RoadMap:

DBA Roadmap: Learn to become a database administrator with PostgreSQL dba-roadmap · GitHub Topics

Network Engineer & Administrator:

Languages:

SQL(mastery)

Work:

A network administrator oversees the maintenance and monitoring of computer infrastructures

RoadMap:

<u>eovchar/neteng-roadmap: Network Engineering at Scale Roadmap/Landscape</u> (<u>github.com</u>)

Artificial And Intelligence: AI Expert Roadmap (am.ai)

1) Machine Learning

2)Robotics

1)

Languages:

Python,R,Java,JavaScript,SCALA,Lisp,C++,C#,Julia,Shell,TypeScript

RoadMap:

mrdbourke/machine-learning-roadmap: A roadmap connecting many of the most important concepts in machine learning, how to learn them and what tools to use to perform them. (github.com)

Best Machine Learning Roadmap | Definitive guide to ML for 2022 - Myriad Brain

2)Robotics

Languages:

python,java,mathlab,c,c++,lisp,c#

RoadMap: Robotics Roadmap - CCC (cra.org)

System Administrator:

Languages:

Bash,python,powershell,azure powershell,node.js,kubernetes Work:

· System administrators support, troubleshoot, and maintain computer servers and networks

RoadMap:

system-administration · GitHub Topics

Career Roadmap: Systems admin role isn't dead | CIO

DevOp Engineer:

Languages:

- Java
- PHP
- JavaScript
- Golang
- Ruby
- Perl
- SQL

Work:

DevOps engineers combine software development and IT operations

RoadMap:

DevOps Roadmap: Learn to become a DevOps Engineer or SRE

DevOps Roadmap 2022: How to Become a DevOps Engineer in 8 Steps (hubspot.com)

Cyber Security Expert:

Languages:

SQL(mastery)

Work:

Ensuring cyber security

RoadMap:

How to Become a Cyber Security Expert? Ultimate Roadmap (knowledgehut.com)

Cyber Security Roadmap: Learn to become a Cyber Security Expert

QA Engineer:

Languages:

C#, Java, JavaScript, Python)

Work:

Checking Quality of a developed software

RoadMap:

QA Roadmap: Learn to become a modern QA engineer

fityanos/awesome-quality-assurance-roadmap: :books: The starting point of your career as a Software Quality Assurance Engineer | Quality Automation Engineer :books: (github.com)

Research Analyst:

Languages:

Java, JavaScript, Python,R,SQL,Scala,MATLAB

Work:

finance professional responsible for gathering, analysing, interpreting data and preparing research reports on assets, stocks and securities.

RoadMap:

Five Years Roadmap For Research Analyst Career Path | Presentation Graphics |
Presentation PowerPoint Example | Slide Templates (slideteam.net)

BlockChain Developer:

Languages:

JavaScript, Go, Solidity

Work:

Developing and deploying smart contracts: Blockchain developers are responsible for creating and deploying smart contracts using programming languages such as Solidity, JavaScript, and Go.

RoadMap:

Blockchain Developer Roadmap: Learn to become a blockchain developer

Blockchain Developer Roadmap 2022: A Complete Guide (knowledgehut.com)

UX/UI Designer:

Languages:

React, Angular, HTML/CSS, JavaScript

Work:

UI designers create the graphical portions of mobile apps, websites, and devices RoadMap:

A good roadmap to the ideal UI/UX design (rangle.io)

Mern Stack Developer:

Languages:

M - MongoDB

E - Express

R - React

N - Node

Work:

Designing And Implementing APIs

RoadMap:

Complete roadmap to become a pro in MERN STACK - DEV Community

RoadMap to learn MERN Stack for Beginners - DEV Community