Program Curriculum

Module 1

Pre – Work – Introduction to Python & Linux Python

- Introduction to Python and IDEs
- Python Basics
- Object Oriented Programming
- Hands-on Sessions And Assignments for Practice

Linux

- Introduction to Linux
- Linux Basics
- Hands-on Sessions And Assignments for Practice

Module 2

Object Oriented Programming & Software Engg.

- Object Oriented Programming and Design
- Agile Methodology
- Unit Testing, Code Refactoring, Writing Clean Code
- Introduction to version Control & Git
- Overview of Operating Systems

Module 3

Database Design & Querying

- Databases Concepts SQL Querying, Joins, DB Design
- Database Design & Modelling
- Working with SQL Queries
- Joins, Sub Queries, Views

Module 4

Solving Top Product Companies Interview Questions

In this module you will be solving question asked by top product companies.

Module 5

Product Management

- Introduction to Product Management
- Product Vision and Measurement
- Roadmaps and Prioritization
- Understanding user stories
- Interaction with different teams for better product development

Module 6

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MS SQL

- SQL Basics
- Advanced SQL
- Deep Dive into User Defined Functions
- SQL Optimization and Performance

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Specialization 1

Backend Specialization

- MVC
- REST APIs and Web Services
- Object-Relation Mapping
- Spring Boot
- Views and Database Indexes
- Multithreading

Specialization 2

Full Stack Specialization

- Building a server for hosting
- MVC Introduction
- Web Architecture
- HTML, CSS and JavaScript
- JS Frameworks Node.js, React / Redux
- Backend Architecture
- NoSQL Database MongoDB

Specialization 3

Cloud Computing & DevOps

- AWS
- DevOps

Specialization 4

Data Science

- Introduction to Data Science using Python
- Python basic constructs
- NumPy for mathematical computing
- Pandas for Data manipulation
- Data visualization with Matplotlib
- Maths for DS-Statistics & Probability
- Machine Learning using Python
- Supervised learning-Linear Regression
- Supervised learning-Logistics Regression

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Program Curriculum

- Unsuperwised Leaning And K-means Clustering
- Hire Clustering And Dimention Reduction
- Time Series Forecasting
- OOPs in Python (Self-paced)
- Python integration with Spark (Self-paced)

Specialization 5

Cyber Security

• Ethical Hacking

Skills to Master

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- Problem Solving
- Advanced ProgrammingWe

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- Data Structures
- Algorithms
- Product Management
- System Design
- Application Development
- Full-Stack Specialization

- Back-end Specialization
- Web Architecture
- Data Science
- Cloud Computing
- Cyber Security
- Databases
- Rest API

Tools to Master

