Brudite

Exploring The Unexplored

COURSE OUTLINE

Course Curriculum & Learning Content

Software Development Practices & Associate Program

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Table of Contents

WHO WE ARE?

ABOUT US

Brudite
Exploring The Unexplored

WE UNLOCK POSSIBILITIES FOR YOU
Choose | Devise | Explore | Infinite

Brudite is a young group of exciting people with an immense amount of software development experience who are "**Exploring The Unexplored**" areas of Software Development.

Brudite was founded by Rishabh Tiwari out of a pure passion for people. Brudite is led by Rishabh, Riyaz, and Ankush, It is committed to helping people gain insights into the Software Development Life Cycle.

Their goals, ambitions, and inspirations have come together to form a truly amazing community that all of us are proud to be a part of. At Brudite, we're extremely passionate about what we do, which translates into rewarding results and positive experiences. Our years of experience, fresh creativity, and unwavering dedication set us apart from the competition.

COURSE
HIGHLIGHTS

3 Months
With

120+ Hours
Learning Session

4 Layers of Software Development
Learn step by step and make comprehensive progress.

Learn End-to-End Software Development
Learn and explore the areas required to build Software Application Components with Practical LABs and Assessments.

Eminent Mentors
Learn from the best in class instructors with special guidance from our mentors.

Earn a Certificate
Upon successful completion of this program, receive a Certificate of Internship from Brudite Private Limited.

WHO CAN TAKE IT?
WHO IS THIS COURSE FOR?

Life Long Learner
Anyone who is enthusiastic about software engineering and wanted to explore the unexplored life long.

Students
Students who want to build cutting-edge products and kick start their software development career.

Winner
Anyone who would like to stand out in Software Engineering, to build a wide arsenal of skill sets and work on emerging technologies.

Anyone who is aiming to start his/her career in IT to deal with the latest tools and technologies that increase an organization's ability to deliver applications and their services at a higher pace: evolving and improving products at a faster rate than organizations using traditional software development and also the best ways of infrastructure management processes in software/ application development. The course is specially designed to polish your skills with the new services in trend, taking you one step closer to your dreams by unlocking the possibilities.

Software Development Practices & Associate Program

@2021, Brudite

LEVEL: 01
Foundational

Level: 01

Foundational - In this module, you will gain high-level insights into the fundamental Software

Engineering topics mentioned below:

- Introduction to SDLC & Agile Framework

- IDEs and Virtual Environment

- Introduction to Computer Programming language

- Introduction to Version Control System

- Introduction to Cloud Computing

WHAT ELSE YOU SHOULD KNOW?

10 Days
With

20+
Learning Hours

Hands-on LABs
Learn through practical implementation with 25+ prepared labs and assessments.

Bridge The Gap
Learn to build a Software Application with multiple tools and technologies involved.

Strong Foundation
Build strong foundation as it holds the accountability of an excellent result.

Level: 01

Chapter: 01, Introduction to SDLC & Agile Framework

In this module, you will gain insights into the **Software Development Life cycle** along with **Agile Frameworks** like **Scrum** and **Kanban** with tools to manage it.

- Introduction to SDLC

- Importance of Software Development Models

- Software Development Ecosystem

- Introduction to Agile and its framework

  - Scrum Framework

    - Introduction to different types of meeting

    - Product Backlog

    - Story Points

  - Kanban Framework

- Agile Principles

- Introduction to Confluence

- **LAB** - Trello Board

- **LAB** - JIRA Board

- Key Takeaways

Level: 01

Chapter: 02, IDEs and Virtual Environment

In this module, you will gain insights into the **Integrated Development Environment** and concepts

of **Virtual Environment**.

- Introduction to IDEs

- Different types of IDEs

- IDEs vs SDKs

- **LAB** - PyCharm & VS Code

- **LAB** - Jupyter Notebook

- **LAB** - Common Hacks

- Introduction to Virtual Environment

    - Importance of using Virtual Environment

    - Different types of Virtual Environment

    - **LAB** - venv and virtualenv

    - **LAB** - Conda

- Key Takeaways

Level: 01

Chapter: 03, Introduction to Computer Programming language

In this module, you will gain insights into **Python** as one of the Computer **Programming Language**.

- Introduction to Programming Languages

- Introduction to Python Programming Language

  - History

  - What, Why & Where

  - Use Cases

- **LAB** - Installation of Python Software

- **LAB** - Running first Python Code

- Fundamental concepts of Python

  - **LAB** - Numbers & Variables

  - **LAB** - Keywords

  - **LAB** - Decision Making & Looping Statements

  - **LAB** - Fundamental Data Structures

  - **LAB** - Exception Handling

  - **LAB** - Functional Programming

  - **LAB** - Higher-Order Functions

  - **LAB** - Object-Oriented Programming

- Key Takeaways

Level: 01

Chapter: 04, Introduction to Version Control System

In this module, you will gain insights into **Version Control System** and tools associated with it.

- Introduction to Version Control System

- Types of Version Control System

- Introduction to Git & GitHub

- **LAB** - Account Setup of GitHub

- **LAB** - Installation of Git

- Fundamental Concepts

  - Repository

  - **LAB** - Remote and Local Repositories

  - **LAB** - README.md

  - **LAB** - Global Configurations on Local

  - **LAB** - Git fundamental commands

- End-to-end workflow

- **LAB** - Branching

- **LAB** - Pull Request

- Key Takeaways

Level: 01

Chapter: 05, Introduction to Cloud Computing

In this module, you will gain insights into **Cloud Computing** as technology and **AWS** as a Cloud

Service Provider.

- Introduction to Cloud Computing

- Fundamentals of Cloud Computing

  - Layers

  - Models

  - Pros & Cons

  - Challenges

- Introduction to AWS

- **LAB** - Account Setup on AWS

- Introduction to AWS Fundamentals

  - Global Infrastructure

  - Management Console

  - Programmatical Access

  - Basic Services - Identity Management, Compute, and Storage

- Introduction to AWS IAM

  - **LAB** - Users, Groups, Roles & Policies

  - **LAB** - Multi-Factor Authentication
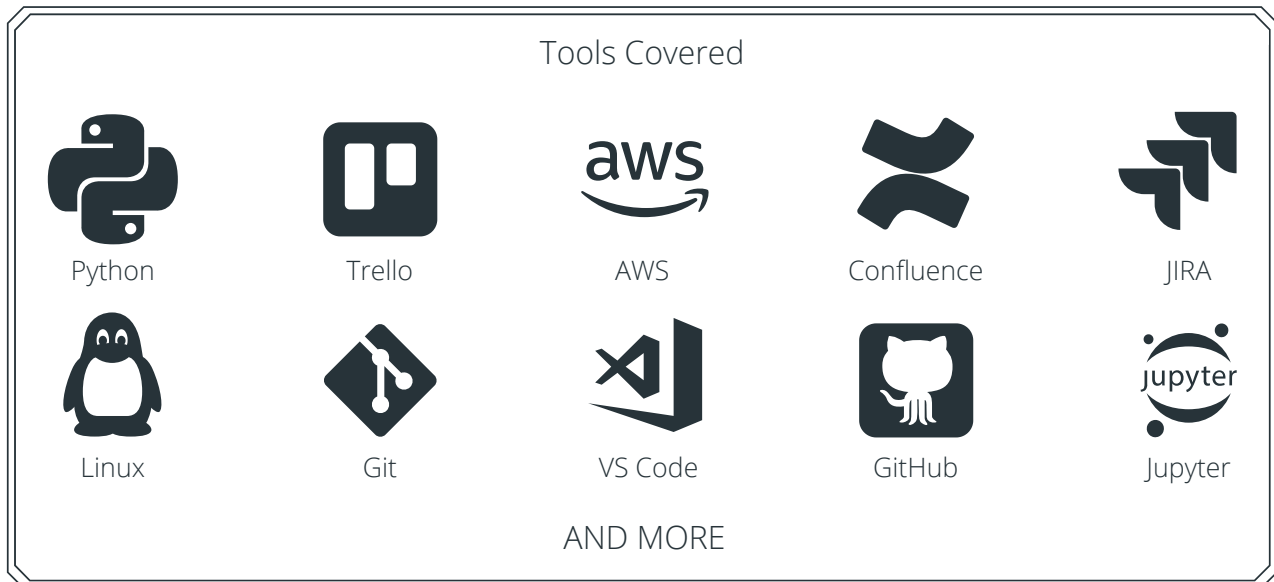
  - IAM Best Practices

- Introduction to Amazon EC2

  - **LAB** - Amazon machine Image

  - **LAB** - Instances and Elastic Block Storage Volumes

  - **LAB** - Security Groups

  - **LAB** - Launching an Amazon EC2 Instance

  - **LAB** - Connecting an Amazon EC2 Instance

- **LAB** - Running a Web Server(Apache) on Amazon EC2 Instance

- Introduction to Amazon S3

  - Amazon S3 Concepts

    - Buckets

    - Objects

    - Storage types

    - Versioning

    - Delete Marker

    - Lifecycle Policies

    - Encryption

  - **LAB** - Bucket Creation

  - **LAB** - Hosting Static Website

  - **LAB** - Cross-Region and Same Region Replication

  - Key Takeaways

TECH STACK

WHAT YOU WILL LEARN

Tools Covered

Python	Trello	AWS	Confluence	JIRA
Linux	Git	VS Code	GitHub	Jupyter

AND MORE

Objectives Unlocked:

Upon successful completion of this course:

- You will be able to use Project Management Tool JIRA with collaborating skills on Atlassian's Confluence

- You will be able to isolate and manage dependencies with the help of Virtual Environments

- You will be able to code with Python fundamentals

- You will be able to version control your source code securely on platforms like GitHub

- In the end, you will be able to explore the power of Cloud Service Provider AWS with some of its services

INSTRUCTORS & MENTORS

Learn from industry-leading Software Engineers in the field of Software Engineering and several experienced industry practitioners from top organizations. Below is an indicative sample of instructors and mentors you might interact with during the course of the program.

Riyaz Ul Haque
Senior Software Engineer | AWS Community Builder
Nothing satisfies him more than teaching people, spreading knowledge with new variations, developing new strategies for the overall growth of the business.

Suhas Jadhav
Senior FullStack Developer | Tech Lead
Technical Lead with an immense amount of experience in product development with a variety of technologies.

Rishabh Mudgal
Product Manager
An experienced product leader, who loves solving complex customer problems by leveraging data and technology. He loves to experiment and iterate rapidly on feedback.

Shashank Sharma
Cloud Architect
More than 10 years of experience across different domains such as Oil and Gas, Telecom, Finance, Digital / Social Media, Business Incubation, and Big Data.

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Lets
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