

ABOUT TECHNOVALLEY AFRICA

Technovalley AKS was established in 2016 and since then it has been growing at a steady pace to reach a milestone of \$280 million valued company. Technovalley AKS has been successful in placing 1000s of interns across 600+ MNCs worldwide. This wouldn't be possible without the help of interns, corporates and our staff whohelped us reach this breakthrough.

Technovalley is a global IT company leveraging the potential of information technology for creating best opportunities for businesses and individuals across the world. We are a Foreign Direct Investment Company, and incorporated with a vision to facilitate our varied High technology Services to many locations in the Globe. Technovalley is a milestone in the ever-changing global IT scenario.

From unrivaled services, ranging from Strategy Consulting to Technical Education and undeniably the best resources ranging from experienced manpower to well-equipped infrastructure, we strive to be the best in the IT consulting & service landscape in India. Technovalley is a milestone in the ever-changing global IT scenario. At Technovalley, We believe in technology Innovation. We are dedicated to provide the latest state-of-the-art technology solutions to our Clients and Organisations Across varied business domains.

PRE-REQUISITE:

- Any Graduate.
- Diploma Holder.

TARGET AUDIENCE:

- Beginners.
- IT Professionals.
- Students.

JOB ROLES:

- Junior Java Developer.
 Project Manager.
- Senior Java Developer.
 Design Lead.
- Java Web Developer.
 Software Engineer.
- Android Developer.
 Senior Core Java Developer.
- Java EE Developer.
 Java Backend Developer.



ABOUT SALARY

glassdoor

According to Glassdoor, The national average salary for a Java Developer is **\$98,555** in United States.



According to Payscale, The national average salary for a Java Developer is **\$81989** in United States.

TOOLS COVERED





















{ REST:API }

1. JAVA Basics

6 HRS

- History of Java.
- Difference between Java and other programming languages.
- Features of Java.
- Working of Java.
- JDK tools- javac, java, applet viewer.
- Set path and how to run Java Program in Command Prompt.
- JVM.
- Byte code.
- Java Program Structure.
- Packages in java.
- Java naming rules and conventions.
- comments.
- Wrapper Classes.
- Conditional Statements.
- Looping constructs.
- Create objects of class.
- Functions
- Variable types local, instance and static variables
- Parameterized functions
- Function overloading
- Variable argument function

2. IDE 1 HR

ECLIPSE:

- Overview.
- Menus.
- Views.
- Perspective.
- Workspaces.
- Create project.

- Create package.
- Create java class.
- Run Configuration.
- Running Program.
- Build Project.

3. OOPS 6 HRS

- OOPs concepts in JAVA.
- Object Oriented Features.
- Constructors.
- Constructor overloading.
- Types of inheritance single, hierarchical and multilevel.
- Base class and child class concepts.
- Access specifies and scope of variables public, private, protected.
- Method overriding.
- Super-3 uses.
- Final- 3 uses.
- Static functions and properties.
- Dynamic method dispatch (Runtime Polymorphism).
- Order of constructor calling in inheritance.
- Abstract class.
- Interface.

4. Inner Class and Nested Class

- Regular inner class.
- Method local inner class.
- Anonymous inner class.
- Static nested class.

8. Arrays

3 HRS

- One-dimensional array.
- Enhanced for loop.
- Two-dimensional array (dynamic column size).
- Multidimensional array.

9. Collection Framework

- Introduction to Collection framework.
- List Interface.
- Array List.
- Vector.
- Linked List.
- Set Interface.
- Hash Set.
- Linked hashSet.
- Tree Set.
- Map Interface.
- Hash Map.
- HashTable.
- Linked HashMap.
- Tree Map.
- Queue and Priority Queue.

10. Generics

2 HRS

- Introduction to Generics code.
- Mixing Generics and Non Generic code.
- Polymorphism in Generics.
- Generics methods.

11. Date

2 HRS

Create and manipulate calendar data using classes from

- java.time.LocalDateTime
- java.time.LocalDate
- java.time.LocalTime
- java.time.format.DateTimeFormatter
- java.time.Period



12. Annotations

3 HRS

- What is Annotation and its usage.
- Built in Annotations.
- User Defined Annotations.

13. File Navigation and IO

- Introduction to java.io package.
- Character and Byte Streams.
- File Class.
- Character Classes File Reader, File Writer, Buffered Reader, Buffered Writer, Print Writer.
- Byte Streams FileInputStream, FileOutputStream, Buffer Input Stream, Buffered Output Stream.
- Object Serialization.
- Object Input Stream and Object Output Stream.
- readObject() and writeObject().
- Serialization in inheritance.
- Externalization.

14. Multithreading

2 HRS

- What is Multithreading.
- Lifecycle of Thread.
- Creating Thread.
- Thread Scheduler.
- Sleeping a thread.

15. MySQL & JDBC

- Introduction to MySql.
- Queries.
- Create database, table.
- Alter add, modify, change, rename, drop column.
- Drop table, database.
- Insert, delete, update, select, show, desc.
- Where clause, order by, group by.
- Operators and, or, between and, in, not in, like, distinct.
- Sub queries.
- Join inner join, left join, right join.
- JDBC Introduction.
- JDBC Driver.
- DB Connectivity steps.
- Connectivity Java with MySQL and Oracle/MongoDB.
- Driver Manager.
- Connection.
- Statement.
- ResultSet.

16. Web Application Introduction

1HR

- Introduction.
- Web server and web client.
- Web application directory structure.
- Web application components.
- Web container.
- Deployment descriptor.
- Apache Maven build tool.
- Starting a web application in Eclipse.
- Internet, client server architecture, Http, https, ftp, file.
- uploading etc. introduction.

17. HTML 5 & CSS

- HTML introduction.
- HTML tags.
- Images.
- HTML tables.
- HTML forms.
- CSS syntax.
- CSS Id and Class selectors.
- How to insert CSS.

18. JavaScript

4 HRS

- Introduction.
- External and internal JavaScript.
- Functions.
- Accessing HTML form controls.
- JavaScript pop up boxes.
- Validation.
- Debugging JavaScript.

19. jQuery

2 HRS

- Introduction and installation.
- Syntax.
- Selectors.
- Events.
- jQuery effects hide, show, fade, slide, animate.
- Callback function.
- Chaining effects.

20. AJAX using jQuery

- Introduction to AJAX.
- Send GET and POST data.
- Read response and display it in HTML controls.

21. Servlet 6 HRS

- Features of Servlet.
- Working of Servlet.
- Introduction to Servlet API and Servlet class hierarchy.
- Servlet life cycle.
- Life cycle methods.
- The Servlet API and its interfaces.
- How to set Servlet initialization parameter.
- How to set context initialization parameter.
- Servlet Event handling.
- Servlet events and interfaces.
- Servlet session handling techniques.
- Inter Servlet communication.
- Servlet filters.

22. JSP 10 HRS

- Introduction to JSP.
- Advantages.
- JSP Life cycle.
- Structure of JSP page.
- Components of JSP page.
- JSP implicit objects.
- Create error pages in JSP.
- JSP and JavaBean.
- JSTL.
- Custom tags.

23. Spring

- Benefits of using Spring framework.
- Dependency injection.
- Aspect Oriented Programming.
- Spring framework architecture.
- Spring environmental setup.
- One example.
- Spring IoC containers.
- Spring BeanFactory Container.
- Spring ApplicationContext Container.
- Spring Bean definition.
- XML based configuration file.
- Annotation-based configuration.
- Spring Bean scopes.
- Spring Dependency Injection.
- Constructor based DI.
- Setter based DI.
- Spring Injecting Inner Beans.
- Spring injecting Collections.
- Spring Beans AutoWiring.
- By name.
- By type.
- Spring Annotation Based Configuration.
- @Required.
- @AutoWired.
- Spring JDBC framework.
- Spring with Hibernate.
- Spring MVC framework.
- CRED Application with MVC

24. Web services

- Introduction.
- Features of Web Services.
- Roles service provider, service requestor, service registry.
- Web services protocol stack.
- Life cycle.
- Standards.
- RESTful web service.
- Create a RESTful web service.
- REST Representational State Transfer.
- JAX-RS with Jersey.
- Installation of Jersey.
- Web container.
- Prerequisites.
- Create your first RESTful Webservice.
- Create a REST client.
- RESTful web services and JAXB.
- CRUD RESTful webservice.
- JSON.

GLOBAL HEADQUARTERS





THE ULTIMATE LEGEND IN UPSKILLING AND RESKILLING

ACHIEVEMENTS OF OUR INTERNS



AMAL KRISHNA C Cyber Security Intern

Amal is our cyber security intern, he discovered the flaws in a Government website.



MUHAMMED SANEEM Cyber Security Intern

Recognition by The Govt. of Scotland -Vulnerability Disclosure.

Featured in **Apple** Hall of Fame for Vulnerability Disclosure.



ALEENA ANTONY Data Science Intern

She created a mask and no mask detection system using Computer vision and Deep learning,

Platform: TensorFlow Program: Python



ADNAN MUHAMMAD Python Fullstack Intern

He developed M C Hospital **Doctor Booking web application** in Python program.



KARTHIK SHIBU Cyber Security Intern

Karthik is our cyber security intern, he discovered the flaws in an Indian Government website.



VIDYA P KISHORE Python Fullstack Intern

She developed an E-commerce website for a Fashion Store Brand.

Frontend: **Bootstrap** Backend: Python







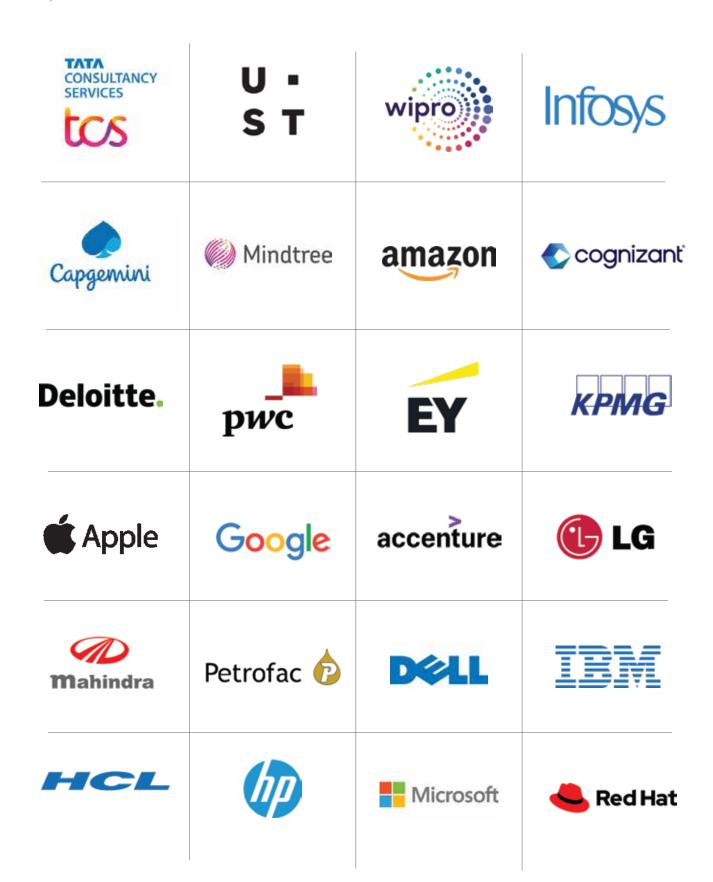






OUR STUDENTS ARE EVERYWHERE

Technovalley has a long-standing tradition of providing top-notch internship opportunities for students and young professionals. Over the years, we have certified thousands of interns, and we are proud to say that many of our graduates have gone on to secure employment in some of the most renowned global companies. The following are some of the organisation that our students are placed in



Technovalley's partnerships and experience with global companies have cemented its position as a foremost provider of upskilling and reskilling. By leveraging successful techniques and continually improving its services, Technovalley has established itself as a leader in the field. The following are our Global partners for **Technovalley Global HQ**.















































HEADQUARTERS

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