

	MON	TUE	WED	THU	FRI	ENVIRONMENT
Week 1 UNIX & Java Fundamentals	First Day Orientation <ul style="list-style-type: none"> Computer fundamentals- Types of Memory Operating system fundamentals Introduction to UNIX Unix Commands Environment Variables 	<ul style="list-style-type: none"> File Permissions Command-Line Text Editors Package Managers 	<ul style="list-style-type: none"> Introduction to Git Resolving Pull Requests Github Issues AWS Introduction AWS EC2 AMI Security Groups SSH Into EC2 Instance 	<ul style="list-style-type: none"> Introduction to Java JDK, JRE, JVM First Java Program: HelloWorld Methods and Parameters Variable Scopes 	<ul style="list-style-type: none"> Control Flow Statements Arrays, Var-args, for-each loops Packages and Imports Constructors 	
Week 2 Introduction to Java/Unit Testing	Java Fundamentals & Unix assessment Individual Interviews Quality control audit <ul style="list-style-type: none"> Class vs Object Access Modifiers Non-access modifiers 	<ul style="list-style-type: none"> Intro to TDD and Unit Testing Read from console (Scanner) JUnit Annotations Assert Methods 	<ul style="list-style-type: none"> Pillars of OOP Casting String API Object class Abstract Classes Interfaces 	<ul style="list-style-type: none"> Custom Exceptions Checked vs Unchecked Exceptions Exception Handling or Declarations Exception Hierarchy Try-with-resources Multi-catch blocks 	<ul style="list-style-type: none"> Collection API Wrapper Classes Lists ArrayList and LinkedList Sets Queues Maps HashSet and TreeSet Coding assessment	<ul style="list-style-type: none"> Eclipse JUnit 5
Week 3 Java	Java - Fundamentals assessment Project 0 Individual Interviews Quality control audit <ul style="list-style-type: none"> Generics Iterator interface Iterable Interface Comparable Interface Comparator interface Annotations 	Project 0 <ul style="list-style-type: none"> Stack and Heap Garbage Collection StringBuilder, StringBuffer Thread Class Multithreading Runnable Interface States of a Thread 	Project 0 <ul style="list-style-type: none"> Functional Interfaces Lambdas Project object model (POM) Introduction to Maven 	Project 0 <ul style="list-style-type: none"> Maven Lifecycles Maven Repositories Project Coordinates 	Project 0 <ul style="list-style-type: none"> File I/O: FileInputStream/FileReader/FileWriter Serialization Overview of Logging Coding assessment	

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Week 4 SQL/JDBC	Project 0	Project 0	Project 0	Project 0	Project 0	<ul style="list-style-type: none"> • PostgreSQL • DBeaver
	Java assessment	<ul style="list-style-type: none"> • DDL - Data Definition Language 	<ul style="list-style-type: none"> • Setting up the Database Driver 	<ul style="list-style-type: none"> • TCL - Transaction Control Language 	Coding assessment	
	Individual interviews	<ul style="list-style-type: none"> • DML - Data Manipulation Language 	<ul style="list-style-type: none"> • Interfaces of JDBC 	<ul style="list-style-type: none"> • Atomicity 	<ul style="list-style-type: none"> • Set Operations 	
	Quality control audit	<ul style="list-style-type: none"> • DQL - Data Query Language 	<ul style="list-style-type: none"> • Connection Interface 	<ul style="list-style-type: none"> • Consistency 	<ul style="list-style-type: none"> • What is an index, advantages of indexes 	
	Interview & PO check-in	<ul style="list-style-type: none"> • DCL - Data Control Language 	<ul style="list-style-type: none"> • Simple & Prepared Statements 	<ul style="list-style-type: none"> • Isolation 	<ul style="list-style-type: none"> • Creating an index 	
	<ul style="list-style-type: none"> • Week 2 Day 1 Hackerrank Activity • AWS RDS • Overview • Data types • Defining Schema 	<ul style="list-style-type: none"> • DCL - Data Control Language • Constraints • Referential Integrity • Table relationships / multiplicity • Normalization 	<ul style="list-style-type: none"> • Properties file • Design Pattern: Data Access Object (DAO) 	<ul style="list-style-type: none"> • Durability • Read phenomena • Inner / Outer Joins • Left / right Joins • Equi & Theta Joins • Self-join • Cross-join 	<ul style="list-style-type: none"> • What is a view, advantages of views • Creating/modifying views • Types of indexes • Introduction to mocking with Mockito (optional) 	

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Week 5 HTML/CSS/JS/Javalin	Project 0	Project 0	Project 0	Project 1	Project 1	
	SQL assessment Quality control audit <ul style="list-style-type: none"> Overview of HTML HTML Tags HTML Document Structure & DOM Elements and Attributes Common Tags Form Elements and Its Attributes Input Elements and Input Types Inline and Block Elements Submitting Forms Overview of CSS Inline, Internal, and External Stylesheets Element Selectors CSS Properties Class and Id Selectors Intro to AWS S3 AWS S3 Bucket Configuration Hosting Static Sites on S3 	<ul style="list-style-type: none"> JavaScript Introduction Data types Type Coercion Variable Scopes let and const keywords Arrays Template Literal Functions "this" keyword Arrow functions "strict" mode DOM Structure Selecting elements from the DOM DOM Manipulation 	<ul style="list-style-type: none"> Events & Listeners Bubbling, capturing Traversing the DOM JSON AJAX Workflow with XMLHttpRequest Object Working with JSON in AJAX Promises Fetch API async/await keywords 	<ul style="list-style-type: none"> Introduction to HTTP Request and Response Verbs Status Codes Introduction to REST Resources and URL construction in REST Constraints Exposing and Consuming RESTful API endpoints Rest with JSON 	<ul style="list-style-type: none"> Introduction to Javalin HTTP Handlers Exception/Error Mapping coding assessment	

	MON	TUE	WED	THU	FRI	ENVIRONMENT
Week 6 DevOps/Hibernate	Project 1	Project 1	Project 1	Project 1	Project 1	
	Front-end assessment	<ul style="list-style-type: none"> Installing Docker 	<ul style="list-style-type: none"> DevOps Overview 	<ul style="list-style-type: none"> Object-relational mapping 	<ul style="list-style-type: none"> Native SQL 	
	Individual interviews	<ul style="list-style-type: none"> Containers vs VMs 	<ul style="list-style-type: none"> DevOps and Agile 	<ul style="list-style-type: none"> Hibernate and JPA 	<ul style="list-style-type: none"> Criteria API 	
	Quality control audit	<ul style="list-style-type: none"> Containerization 	<ul style="list-style-type: none"> DevOps and Agile 	<ul style="list-style-type: none"> Hibernate architecture 	<ul style="list-style-type: none"> Caching 	
	<ul style="list-style-type: none"> AWS Regions and Availability Zones 	<ul style="list-style-type: none"> Managing Containers 	<ul style="list-style-type: none"> Continuous integration 	<ul style="list-style-type: none"> Hibernate architecture 	<ul style="list-style-type: none"> XML Overview 	
	<ul style="list-style-type: none"> EC2 Autoscaling 	<ul style="list-style-type: none"> Docker Architecture 	<ul style="list-style-type: none"> Continuous deployment 	<ul style="list-style-type: none"> Interfaces of hibernate 	Coding assessment	
	<ul style="list-style-type: none"> Git flow & Branching strategiesb 	<ul style="list-style-type: none"> Docker Daemon 	<ul style="list-style-type: none"> Continuous delivery 	<ul style="list-style-type: none"> hibernate.cfg.xml file 		
		<ul style="list-style-type: none"> Docker Containers 	<ul style="list-style-type: none"> Jenkins 	<ul style="list-style-type: none"> Annotations for model classes 		
		<ul style="list-style-type: none"> Dockerfile 	<ul style="list-style-type: none"> Jenkins job/project 	<ul style="list-style-type: none"> Object states 		
		<ul style="list-style-type: none"> Docker volumes 	<ul style="list-style-type: none"> Jenkins build 	<ul style="list-style-type: none"> HQL 		
Week 7 Angular	Project 1	Project 1	Project 1	Project 1	Project 1	
	DevOps & Hibernate assessment	<ul style="list-style-type: none"> Variable data types 	<ul style="list-style-type: none"> @NgModule decorator 	<ul style="list-style-type: none"> HttpClient 	<ul style="list-style-type: none"> Testing in Angular with Jasmine & Karma 	
	Group interviews	<ul style="list-style-type: none"> Classes and Access Modifiers 	<ul style="list-style-type: none"> Pipes 	<ul style="list-style-type: none"> Setting up routing 	<ul style="list-style-type: none"> mocking with Jasmine (optional) 	
	Quality control audit	<ul style="list-style-type: none"> Decorators 	<ul style="list-style-type: none"> Custom Pipes 	<ul style="list-style-type: none"> Route guards 	<ul style="list-style-type: none"> mocking with Jasmine (optional) 	
	<ul style="list-style-type: none"> Node as a JS runtime; npm as a package manager 	<ul style="list-style-type: none"> Interfaces 	<ul style="list-style-type: none"> 1-way data binding 	<ul style="list-style-type: none"> RxJS - Observables 	<ul style="list-style-type: none"> Angular Review 	
	<ul style="list-style-type: none"> Package.json file 	<ul style="list-style-type: none"> Webpack 	<ul style="list-style-type: none"> 2-way data binding 	<ul style="list-style-type: none"> RxJS - Subjects 	<ul style="list-style-type: none"> Introduction to SDLC 	
	<ul style="list-style-type: none"> TypeScript Intro 	<ul style="list-style-type: none"> Angular CLI 	<ul style="list-style-type: none"> Services and Dependency Injection 	<ul style="list-style-type: none"> Pub/Sub design pattern 	<ul style="list-style-type: none"> Agile vs Waterfall 	
	<ul style="list-style-type: none"> Single Page Application (SPA) 	<ul style="list-style-type: none"> AngularJS vs Angular 4+ 		<ul style="list-style-type: none"> Event Emitters 	<ul style="list-style-type: none"> Agile/Scrum Concepts 	
		<ul style="list-style-type: none"> History of Angular 			<ul style="list-style-type: none"> Story pointing 	
		<ul style="list-style-type: none"> Component lifecycle methods 			<ul style="list-style-type: none"> Scrum Ceremonies 	

	MON	TUE	WED	THU	FRI	ENVIRONMENT
Week 8 Spring Core/MVC/Boot	Project 2	Project 2	Project 2	Project 2	Project 2	
	Angular & SDLC assessment	<ul style="list-style-type: none"> MVC Architecture and Annotations 	<ul style="list-style-type: none"> Overview of AOP and cross-cutting concerns 	<ul style="list-style-type: none"> Spring Boot 	<ul style="list-style-type: none"> Using Angular to make RESTful calls to a Spring controller 	
	Group interviews	<ul style="list-style-type: none"> Form Input with Spring 	<ul style="list-style-type: none"> Advice 	<ul style="list-style-type: none"> Spring Boot Actuator 	<ul style="list-style-type: none"> Using RestTemplate to consume web services 	
	Quality control audit	<ul style="list-style-type: none"> @Controller - MVC Annotations 	<ul style="list-style-type: none"> Pointcut and Join Points 	<ul style="list-style-type: none"> Spring Boot DevTools 		
	<ul style="list-style-type: none"> Intro to Spring Spring IOC Container & Dependency Injection XML vs Annotation-based configuration Bean lifecycle Injecting primitives (XML) Scopes of a bean Annotations 	<ul style="list-style-type: none"> @RequestMapping - MVC Annotations Path Variables and Request Params 	<ul style="list-style-type: none"> Aspect-J Stereotypes 	<ul style="list-style-type: none"> Spring Environments Lombok Validation Spring MVC Test Framework - Mocking (optional) 		
Week 9 Spring Data/Cloud & Microservices Architecture	Project 2	Project 2	Project 2	Project 2	Project 2	
	Spring assessment	<ul style="list-style-type: none"> REST concepts- resources, constraints 	<ul style="list-style-type: none"> Characteristics of a MSA 	<ul style="list-style-type: none"> Circuit breaker design pattern 	<ul style="list-style-type: none"> Containerization & orchestration 	
	Interview- group or sprint retrospective	<ul style="list-style-type: none"> REST- content negotiation 	<ul style="list-style-type: none"> Consul - Discovery Service 	<ul style="list-style-type: none"> Config Server 		
	Quality control audit	<ul style="list-style-type: none"> Richardson Maturity Model 	<ul style="list-style-type: none"> Spring Cloud Gateway 	<ul style="list-style-type: none"> Messaging Queues 		
	<ul style="list-style-type: none"> Spring Data Spring Data Annotations @Transactional Transaction Propagation Strategies Overview of web services History of web services- SOAP vs REST Service oriented architecture (SOA) 	<ul style="list-style-type: none"> Idempotent and safe operations What are microservices Advantages / disadvantages of a microservice architecture (MSA) MSA vs Monolith applications 	<ul style="list-style-type: none"> Load balancing 			
Week 10 Project 3	Project 3	Project 3	Project 3	Project 3	Project 3	
	Quality control audit					
Week 11 Project 3/Panel interviews	Project 3	Project 3	Project 3	Project 3	Project 3	
	Quality control audit-cumulative					
Week 12 Project 3 showcase	Project 3	Project 3	Project 3	Project 3		

PROJECT**TECHNOLOGIES** Project 0

Java, JDBC, SQL

 Project 2Angular 4, Hibernate, Maven, Git,
Associate DevOps pipeline, AWS, Spring
Boot, Spring Data Project 3Spring Boot, Spring Data, Web Services,
Trainer DevOps pipeline, AWS, Angular 4,
Microservices Project 1HTML, Maven, Git, JavaScript, Hibernate,
EC2, S3, Javalin

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