Software Proficiencies and Research

This document aims to provide a summary of the areas of research, training and my general level of proficiency within Java, Kotlin, Android and cloud technologies. The below corresponds to a concise summary of the contents of collated research contained within the 'Research' folder in this repository.

Java SE

Top Level

- Class
- Abstract Class
- Interface
- Enum

Nested Types

- Types
  - Local Class
  - Inner Class
  - Static Nested Class
  - Anonymous Class
  - Lambda Expressions
  - Method Reference
- Members
  - Permitted Members
  - Access to Outer Scopes
  - Shadowing
  - Final or Effective Final
- Nesting Principles
- Memory Depiction
- Instantiation From External Scopes

Static Nested Class

- Effective Top Level Class
- Internal Memory Depiction
- Permitted Access to Outer Scopes
- Instantiation From External Scopes

Anonymous Class

- Header / Body Syntax
- Anonymous Object
  - Extended Class
  - Inline Implementation
- Access to Outer Scopes

Lambda Expression

- Purpose / Intended Use
- Functional Interface
- Parameters / Body Syntax
  - Zero Parameters
  - Multiple Parameters
  - Explict Parameters
  - Implicit Target Type
- Access to Outer Scopes

Enum

- **Declaration / Definition**
  - Header / Body Syntax
  - Enum Constants
  - Enum Constructor
  - Memory Compostion

Enum

- **Instantiation**
  - Declaration
  - Referencing
  - Restrictions

Blocks

- Permitted Usage
- Permitted Members
- Unpermitted Members
- Initialisation Blocks
- Initialisation Blocks
- Labelled Blocks

Class

- **Declaration / Definition**
  - Header / Body Syntax
  - Access Modifiers
  - Memory Composition
    - Static
    - Non-Static
  - Overloading
  - Overriding
  - Shadowing
  - Fields
    - Instance
    - Class
    - Constants
  - Constructors
    - Default No Argument
    - Super Constructor
    - Constructor Chaining
  - Initialisation Blocks
    - non-Static
    - Static
  - Methods
    - Signature
    - Parameter List
    - Parameter Type
      - [ByValue]
      - Primitive
      - Arrays
      - VarArgs
      - Object Variable
      - Interface Variable
      - Method Ref.
      - Lambda Expression
    - Ambiguity
    - Scope / Access
    - Covariant Return Type
  - Extending
    - Compatibility
  - Interface Implementation
    - Single
    - Multiple
    - Generic
- **Instantiation**
  - Declaration
  - Allocation
  - Initialisation
  - Variable Referencing
  - Member Referencing
  - Garbage Collection

Interface

- **Declaration / Definition**
  - Header / Body
    - Structure
    - Syntax
  - Memory Composition
    - Implicit Access Modifiers
  - Members
    - Permitted
    - Unpermitted
  - Fields
    - Constants Only
  - Methods
    - Abstract
    - Static
    - Default
  - Exending
    - Multiple Inheritance
    - non-Static Members
      - Aggregation
      - Non-Ambiguity
      - Non-Clashing
    - Consolidation
- **Class Implementation**
  - Abstract Method Implementation
  - Abstract Method Aggregation
  - No Ambiguity
- **Interface Variables**
  - Polymorphism
  - Anonymous Objects
  - Compatibility
- **Types**
  - Normal
  - Functional
  - Semantic
  - Annotation

Arrays

- Declaration / Allocation / Initialisation
- Utility Classes
  - System
  - java.util.Arrays
- Utility Methods
  - Sorting
  - Collection Conversion
  - Searching
  - Copying
  - Comparison

Annotations

- Declaration
  - Elements
- Deployment
  - Single
  - Multiple / Repeated
- Types
  - Annotation [Predefined]
  - Annotation Type [Custom]
  - Container Annotation Type
  - Meta-Annotations
  - Type Annotation

Static / non-Static Memory

Component

- Memory Composition
- Memory Depiction
- Memory Decpiction within nested components
- Memory Scope
- Memory Properties
  - Internal Composition
  - Location

Static Memory

- Permitted Members
  - Static Member Initialisation
  - Static Member Default Values
  - Static Member Referencing
- Permitted Referencing
- Nested Components
  - Nested Referencing
  - Outer Scope Referencing
  - Shadowing

non-Static Memory

- Permitted Members
- Permitted Referencing
- Default Values
- Nested Components
  - Nested Referencing
  - Outer Scope Referencing
  - Shadowing

Exceptions

- Checked / unchecked
- Chained exceptions
- Catch / specify requirement
- Throwable
- Exception
- try-catch-finally
- try-with-resources
- RuntimeException
- Error

Pipelines / Streams

- Aggregate Operations:
  - Source
  - Intermediate Operations
  - Terminal / Reduction Operations
- Ordering
- Laziness
- Interference
- Aggregate Operators v Iterators
- Collection Traversal
- Low Level Operation
- Side Effects

Generics

Application

- Class
- Interface
- Constructor
- Method
- Abstract Class
- Enum (Constructor)

Scope

- Local
- Class / Interface

Generic Class

- Declaration
  - Header / Body Syntax
  - Class Type Parameters
  - Local Type Parameters
  - Extension and Type Pass Up
  - Multiple Type Parameters
  - Hardcoded Type Parameters
  - Hierarchical Compatibility
- Invocation, Instantiation and Initialisation
  - Syntax
  - Parameterised Types
  - Type Inference
    - Diamond Operator
    - Raw Types (Object)

Generic Constructor / Method

- Class Type Parameter Referencing
- Local Type Parameter Referencing
- Type Parameter Scope
- Invocation
  - Type Witness Omission
  - Type Inference

Generic Interface

- Declaration
  - Header / Body Syntax
  - Interface Type Parameters
  - Local Type Parameters
  - Extension and Type Pass Up
    - Aggregation, Override and Overload
    - Multiple Inheritance
    - Generic / Non-Generic Inheritance
    - Non-Ambiguity
  - Interface Consolidation
    - Multiple Inheritance / Extension / Implementation
- Class Implementation
  - Class Header / Body Syntax
  - Multiple Interface Consolidation
  - Non-Ambiguity
  - Type Argument Specification
    - Generic Type
    - Hardcode
    - Object

Type Arguments

- Bounding
  - Wildcards
  - Upper
  - Lower
  - Unbounded
- Restrictions
- Compatibility
- Extension Substituition

Restrictions

- No Primitive Types
- No Instantiation
- No Static Fields
- No Arrays
- No Overloading (ambiguity)
- No Relational Operators
- No Casting (unless valid)

Type Parameters

- Bounding
  - Upper
  - Unbounded
  - Minimum Implementation
  - Multiple Bounds
- Restrictions
  - Erasure
  - Type Naming Convention

Collections

Interface

- Collection
- List
- Set
- Comparable
- Comparator
- Iterator
- ListIterator
- Map
- Queue
- Deque

Class

- ArrayList
- LinkedList
- HashSet
- LinkedHashSet
- TreeSet
- HashMap
- LinkedHashMap
- TreeMap
- ArrayDeque

- Overview / Benefits
- Interface Properties / Characteristics
- Modifiable / Unmodifiable
- Mutable / Unmutable
- Optional / Unsupported Methods
- View Collection
- Serializability
- Restrictions
- Optional / Unsupported Methods
- View Collection
- Traversal
  - Streams / Pipelines
  - For-Each / Iterators
- Bulk Operations
- Conversions
  - Collection / Array
  - Conversion Constructors

Design Patterns

- Abstract Factory
- Adapter
- Bridge
- Builder
- Ch. Responsibility
- Command
- Composite
- Decorator
- Facade
- Factory Method
- Flyweight
- Interpreter
- Iterator
- Mediator
- Memento
- Observer
- Prototype
- Proxy
- Singleton
- State
- Strategy
- Template Method
- Visitor

Techniques and Data Structures

Dynamic Programming
- 1D
- 2D
- Top-Down
- Bottom-Up / Tabulation

Divide and Conquer
Greedy
Backtracking
Path / Level Tracking
Sliding / Dynamic Window
Binary Search
Big O (Time / Space)

Linked List
Stack
Queue
Deque
Heap
- Min Heap
- Max Heap
- Priority Queue

Hash Table / Map
Prefix Array
Suffix Array
Disjoint Set / Union Find

Recursion
- Recursive Method Structure
- Preprocessing
- Postprocessing
- Base / Ongoing Case
- Call Tree
- Tail Recursion

Graphs / Trees
- Binary Tree
- Binary Search Tree
- Balanced Binary Search Tree
- Minimum Spanning Tree
- n-ary Tree
- Trie

Graph / Tree Traversal
- Directed
- Undirected
- Acyclic
- Edge List
- Adjacency List

BFS / DFS
preOrder
inOrder
postOrder

Multithreading / Concurrency

Interface
- Runnable
- Callable
- Future
- Lock
- Condition
- ExecutorService
  - SingleThreadExecutor
  - FixedThreadPool
- ScheduledExecutorService
  - ScheduledThreadPool
- BlockingQueue<E>
- ConcurrentMap<K,V>

Class
- Thread
- ReentrantLocks
- Semaphore
- Executors
- CountDownLatch
- CyclicBarrier
- AtomicInteger
- ConcurrentHashMap<K,V>
- Exchanger<V>
- PriorityBlockingQueue<E>
- PriorityBlockingQueue<E> with Comparable Element

Techniques
- Synchronisation Blocks
- Wait / Notify
- Volatile Memory
- Object Locks
- Object Locks with Conditions
- Producer / Consumer

Fork / Join
- Class
  - ForkJoinPool
  - RecursiveAction
  - RecursiveTask<V>
- Sequential v Parallel (via Fork / Join)
  - Find Max
  - Mergesort

Serial v Parallel
- Mergesort
- Find Sum
- Streams

States
- Livelock
- Deadlock

SOLID Principles
- Single Responsibility
- Open-Closed
- Liskov Substitution
- Interface Segregation
- Dependency Inversion

Infrastructure
- JDK
  - SE: Standard Edition
  - EE: Enterprise Edition
  - ME: Micro Edition
- JRE / JVM
  - JIT Compiler
    - CLASSPATH
    - Source Directory
    - Java API Library
  - Class Loaders
    - Bootstrap
    - Extension
    - System / Application
  - Memory Allocation
    - Heap
    - Stack
    - Program Counter

Miscellaneous
final
null
super
this
- Constructor Chaining
- Local Reference
- Method Argument / Return

instanceOf
.equals()
.hashCode()

Statements / Expressions / Blocks
- Composition
- Types

Hierachy
Concatenation

Composition v Aggregation

Packages
Management / Organisation
Naming Conventions
Referencing

Importing Static Members
Import Wildcards
Importing Top Level Components

Spring

Projects
- Spring Boot
- Spring MVC
- Spring Validation
- Spring Data
- Spring Batch / Integration
- Spring Security
- Spring Security For OAuth
- Spring Security Authorisation Server

Bean Declaration / Definition
- via XML
- via Annotation
- via Bean Method (@Bean)
- via Component Scanning (@Component)
- via Configuration Classes (@Configuration)

Dependency / Bean Injection
- via Constructor
- via Setter
- via Field
- via Autowiring

Spring Initializr
- Project Creation / Structure
  - Source Code
  - Resources
  - Test
  - application.properties
  - application.yml
  - Manifest File
  - Executable *.jar / *.war
  - Mavern / Gradle Build
- Starter Dependency Selection

Spring Tool Suite
- IDE Plugin
- Spring Boot Dashboard

Configuration
- DSL Configuration
- Configuration Properties
- Profiles

Spring MVC Web Application / REST Endpoint
- Embedded Tomcat Server
- Thymeleaf Templates

- @Controller
- @RestController
  - @RequestMapping
  - @GetMapping
  - @PostMapping
  - @PutMapping
  - @DeleteMapping
  - @PatchMapping
  - @SessionAttributes
  - @ModelAttribute
  - RestTemplate
  - ResponseEntity
  - @ResponseBody
  - @ResponseStatus
  - Object Mapping
  - JSON / XML Payload
  - Pagination
  - Cross Origin Resource Sharing
  - Path Variables
  - HATEOAS

Testing
- @SpringBootTest
- @WebMVCTest
- @Test

Dev Tools
- Auto Restart
- Auto Refresh
- No Caching
- H2 Console

Lombok
- @Data (Data Class)
- Getter / Setter Auto Populate

Logging
- @Slf4j
- Logback

Persistence
- Spring Data JDBC/JPA/...
- JDBCTemplate
- Schema (via *.sql)
- SpEL
- @Repository
- @Table
- @Data
- @Id
- @Query

Security
- User Authentication
- Security Filter Chains
- 3rd Party Authentication
- OAuth2
- JWT
- OpenIDConnect
- Cross Site Request Forgery
- Client Repositories

Messaging
- Asynchronous Brokers
  - JMS — JMSTemplate
  - RabbitMQ — RabbitMQTemplate
  - Kafka — KafkaTemplate
- Push / Pull Models
- Message Converters
- Message Header / Payload
- Message Listeners

XML HTTP REST

XML
- Purpose
- Standards
- XML Document
  - Prologue
  - Elements
    - Tags
    - Attributes
    - Root
    - Siblings
    - Entity Reference
  - Well Formed
  - Comments
  - Namespaces
- XMLHttpRequest
- XML Parser
- XML DOM
- XPath
- XSLT
- XQuery
- XLink
- XPointer
- DTD / XML Schema

HTTP
- Purpose
- Properties
  - Connectionless
  - Media Independent
  - Stateless
  - Versions

MIME Type
- Format
- Components
  - Type
  - Tree / Subtype
  - Suffix
  - Parameters
- Registration Trees
  - Standards Tree
  - Vendor / Producer Tree
  - Personal / Vanity Tree
  - Unregistered Tree

REST API
- Purpose
- Client / Server
- Stateless
- Uniform Interface
  - Resource Identification: URI
  - Resource Manipulation: GET, PUT, POST, DELETE...
  - Resource Description: Content-Type: application/json

Workflows

Continuous Integration > Continuous Delivery / Deployment
- Low Risk
- Progress
- Automation
- User Feedback

Test Automation
- Unit Test Suite
- Regression Test Suite
- Performance Test Suite

Scrum
- Purpose
- Team / Roles
  - Product Owner
  - Scrum Master
  - Developers
- Sprint Events / Workflow
  - Plan
  - Development
  - Review
  - Retrospective

Maven / Gradle
- Purpose
- Project Structure
  - *.pom / build.gradle
  - Modules
  - Dependencies
  - Plugins
    - Maven WAR
    - Maven Cargo
- Build Lifecycle
- mvnrepository.com
- Goals / Tasks

DevOps
- Purpose
- Advantages
- Pipeline
  - Idea > Code > Build > Deploy > Manage > Learn > Idea...
  - Velocity
  - Quality
- Value Stream Map

- Artifacts
  - Product Goal
  - Product Backlog
  - Increment (of Value)
- Sprint Backlog
  - Sprint Goal
  - Items
  - Plan of Delivery
  - Burndown Chart

TDD
- Cycle: Red > Green > Refactor > Red...
- Unit Tests
  - Solution Space
  - Output Space
  - Constraint
  - Certainty / Flexibility
  - Uncertainty Principle
  - Value / Property Testing
- Test Patterns
  - Self Shunt
  - Humble Object
- Test Doubles
  - Dummy
  - Stub
  - Spy
  - Mock
  - Fake

Kotlin

Class

Declaration / Definition

- Constructors
  - Primary
  - Secondary
  - Init Block
- Properties
- Member Functions

- Extension
- Interface Implementation
- Delegation (by)
- Operator Overloading

Properties

- Backing Field
- get() set()
- value field
- Lazy
- lateinit
- val var
- Default value
- Delegation (by)

Extension Properties

- Creating
- Referencing
- Receiver (via this)

Data Class

- Purpose
- Creation
- Built-In Implementations
  - .toString()
  - .equals / ==
  - .hashCode()
  - .copy()
  - .println()
  - .component1()...

- Copying
- Destruction Declarations

Enum Class
Sealed Class
Nested / Inner Class

Generics

- Classes
- Interfaces
- Functions
- Extension Functions

- Type Arguments / Parameters
- Bound / Unbounded
- Nullable / non-Nullable

Collections

List Mutable / Read-Only
Map Casting
Set

Extension Functions

.filter()	.any()
.map()	.all()
.mapNotNull()	.none()
.find()	.associate()
.first()	.associateBy()
.firstOrNull()	
.count()	.flatten()
.partition()	.flatMap()
.groupBy()	
.groupingBy()	.zip
.maxBy()	.zipWithNext()
.minBy()	
.getOrPut()	
.sortByDescending()	

Objects

Purpose	Declaration
Singleton / static	Referencing
Object Expressions	Companion

Language

History
Purpose
Java / JVM Interoperability
Java Interpretation
Java Equivalents

OOP / Functional Styling
Statically Typed
Concision
Modules / Packages
Top Level

equals() / == / ===
Constants
Pairs

Inlining
Arrays

Access Modifiers

private	internal
protected	public

Loops

in	downTo	Range
until	step	..

Types

Type Inference	Type Casting	Unit / Nothing
is / as / as?	Smart Casting	val / var
.let()	?	Any

Conditionals

- Expressions
- Comparisons
- when
  - if-else chain
  - Type Checking
  - Ranges
  - Enum
  - Pairs

Strings

- Templates
- Multiline
- Data Type Conversion
- Concatenation

Common Library Functions

.takelf()	.use()	.withLock()
.takeUnless()	.with() / .run()	.apply() / .also()
.repeat()		

Exceptions

- Structure / Form / @Throws
- try catch
- Assignable
- Function Wrappers
- .require()

Common Annontations

@JvmName	@JvmStatic
@JvmOverloads	@JvmField

Nullable / non-Nullable

Purpose	Elvis Operator
Safe Call	non-Null Assertion !!

Language

- Java / Kotlin Interoperatbility
  - via Annotation
  - via Explicit Type Specification
  - via Intrinsic Checks
  - NPE Safety
  - Platform Types

Functions

Top-Level Anonymous Extending
Member Local Overriding

Forms

As Variable	Named Parameters
As Parameter	Default Arguments
As Return	Function Expressions

Function Types

Implicit / Explicit	nullable / non-nullable

Member References

- Bound / Unbound

Extension Functions

Purpose	Limitations
Creating	Invocation from Java
Managing	infix

Sequences

- Purpose
- Stream Equivalent
- Collection Alternative

- Intermediate Operations
- Terminal Operations

- Lazy
- Yield

- .asSequence()
- .generateSequence()

Lambda Expressions

- Purpose
- Structure { }
- Chained Statements (Functional Styling)
- Trailing Lambda
- Destruction Declaration
- .run()

Forms

- As Variable
- As Argument
- As Return
- As Run / Invocation

Return Control

- via Labelling
- Whole Function

Parameters

- None
- Blanked _
- Single / it
- Multiple

Lambda (with Receiver)

- Purpose
- Structure / Difference
- Extension Function / this

Android

Android Studio

Project Structure / Files

- Source Code
- Resources
- Libraries
- Gradle
- Manifest File
- APK file

UI / Layouts

- Code Editor
- Design Editor

Emulation

- USB Direct
- AVD

Architectures

- MVC
- MVI
- MVVM
- MPC
- Intents
- Broadcasts
- Services
- Work Manager

Views

- TextView
- Button
- Checkbox
- Chip/Groups
- Spinner
- Radio Button/Groups
- Floating Action Button
- Toast
- Snackbars
- View Groups
- View Binding
- View Models
- View Model Factories
- View Model Provider
- Compose
- Live Data
- Mutable Live Data
- Data Binding

UI

- Layout XML
- LinearLayout
- FrameLayout
- ScrollView
- Composable
- CoordinatorLayout
- AppBarLayout
- CollapsingToolbarLayout
- ConstraintLayout
  - Constraints
  - Bias
  - Guidelines
  - Barriers
  - Chains
  - Flows
- Padding/Margin
- Weighting
- Gravity
- Themes
- AppBar
- Toolbar
- Bluprints
- Layout Inflation
- Layout Nesting
- Collapsing Toolbar
- Scrolling Toolbar
- Material Design
- Navigation Bar
- Navigation Drawer

Activity

- Lifecycle State / Methods
- Lifecycle (Visibility)
- Lifecycle (Foreground)
- Save / Restore State
- Bundle
- Device Rotation

Multiscreen

- Fragments
- Fragment Lifecycle
- Navigation Component
- Navigation Graphs
- Navigation Host
- Navigation Controller
- FragmentContainerView
- Actions
- Safe Args / Directions / Args
- Back Stack

Cloud

Architectures

Monolith

- Advantages
- Disadvantages

Microservices

- Advantages
- Disadvantages
- Characteristics
- Inter-Communication
  - Request / Response
  - Event Driven
    - Event Messaging
    - Event Streaming
- Design Patterns
  - Backend-for-frontend (BFF)
  - Entity and Aggregate
  - Service Discovery
  - Adapter
- Design Anti-Patterns

Serverless

- Advantages
- Disadvantages
- Abstraction Chain

Compute Models

- On-Prem
- IaaS
- PaaS
- FaaS
- SaaS

Cloud Service Providers

- Amazon
  - AWS
  - AWS Elastic Beanstalk
  - AWS Lambda
- Microsoft
  - Azure
  - Microsoft Windows Azure
  - Azure Functions
- Google
  - Google Cloud / GCP
  - Google App Engine
  - Google Cloud Functions
- IBM
  - IBM Cloud
  - IBM Cloud Code Engine
- Oracle
- Heroku
- VMWare

Docker

Core

- docker-server
- docker-client
- docker-compose
- dockerHub

Image Build

- DockerFile
  - Base Image
  - Dependencies
  - Startup Command
  - Development
  - Production
- docker-compose
  - docker-compose.yml
  - Build Context
  - Build Cache
  - Networking
  - Port Mapping
  - Restart Policy
  - Volumes

Container

- Resource Segmentation
- Start / Stop
- Status / Monitoring
- Logging
- Communication Channels
- Environment Variables
- Exiting

Image

- File System
- Startup Command

Kubernetes

- **Cluster**
  - Control Plane
    - cloud-controller-manager
    - kube-controller-manager
    - kube-apiserver
    - kube-scheduler
    - etcd
  - Node(s)
    - kubelet
    - k-proxy
    - Container Runtime
      - Docker Engine
      - CRI-O
      - Containerd
      - Mirantis Container Runtime
    - Objects
      - Configuration: *.yml
      - Pod
      - Deployment
        - Pod Template
      - StatefulSet
      - ReplicaController
      - Volume
      - PersistentVolume
      - PersistentVolumeClaim
      - Secret
      - Service
        - ClusterIP
        - NodePort
        - Load Balancer
        - Ingress
    - Label Selector System
    - Environment Variables
    - Role Based Access Control
- **Cluster Admistration:**
  - kubectl
  - kubeadm
  - minikube
- **Controller(s)**
  - Node Controller
  - Job Controller
  - Endpoints Controller
  - Service Account Controller
  - Token Controller
- **Cloud Integration**
  - CI / CD Workflow
    - Local > GitHub > Test Suite > DockerHub > Cloud Service Provider
  - Travis CI
    - .travis.yml
  - Cloud Service Provider
    - Configuration
    - Integration
    - Account Verification
    - Environment Variables
    - Logs / Monitoring
  - Declarative / Imperative

Research Materials

Please find a summary of the primary resources used to conduct the research and study of the subject areas listed above:

Primary Online Resources

Java SE	Oracle Java Tutorials	https://docs.oracle.com/javase/tutorial/index.html
	Oracle Java API	https://docs.oracle.com/javase/8/docs/api/index.html
Kotlin	Online Documentation	https://kotlinlang.org/docs/home.html
Android	Online Documentation	https://developer.android.com/
Spring	Online Documentation	https://docs.spring.io/spring-framework/docs/current/reference/
Kubernetes	Online Documentation	https://kubernetes.io/docs/home/
Docker	Online Documentation	https://docs.docker.com/

Udemy Courses

- Docker and Kubernetes: The Complete Guide
- Java Spring Tutorial Masterclass – Spring Framework 5
- Java Programming Masterclass
- Design Patterns in Java
- Concurrency, Multithreading and Parallel Computing in Java
- Java Memory Management
- Java Application Performance and Memory Management
- Java Reflection
- The Complete Oracle SQL Bootcamp
- Dynamic Programming and Data Structures
- Test Driven Development

Cousera Courses

- Kotlin for Java Developers by JetBrains

Bibliography

Java The Complete Reference	8th Ed.	Herbert Shildt	Oracle Press
Java Cookbook	4th Ed.	Ian F Darwin	O'Reilly
Android Development	3rd Ed.	Dawn and David Griffiths	O'Reilly
Spring in Action	6th Ed.	Craig Walls	Manning
Cloud Native Java	1st Ed.	Josh Long and Kenny Bastani	O'Reilly
Pro Git	2nd Ed.	S.Chacon B.Straub	Apress
Design Patterns	1st Ed.	E.Gamma R.Helm R.Johnson J.Vlissides	Addison Wesley
Clean Architecture	1st Ed.	R.C.Martin	Prentice Hall
Clean Craftsmanship	1st Ed.	R.C.Martin	Prentice Hall
The Clean Coder	1st Ed.	R.C.Martin	Prentice Hall