Weekly Program Schedule

Android Basics Nanodegrees		
Date	Session	Homework
Nov 10/11	User Interface Start working on Single Screen App	Submit the Build a Single Screen App project Complete lessons in User Input: ● Making an App Interactive Part 1 ● Quick Guide to Using Android Studio and Emulator ● Making an App Interactive Part 1 ● Practice Set: Making an App Interactive
Nov 17/18	User Input Start working on Score Keeper App	Submit the Score Keeper App project Complete lessons in User Input : Android Basics: User Input: ● Object Oriented Programming Part 1 ● Object Oriented Programming Part 2 ● Practice Set: Object-Oriented Programming
Nov 24/25	User Input Start working on Quiz App	Submit the Quiz App project Complete lessons in Multi-Screen Apps: ● Intents and Activities ● Java Break: Interfaces ● Array, Lists, Loops, & Custom Classes ● Java Break: Loops ● Quick Guide to Gradle
Dec 1/2	No Weekly session for Riyadh & Khobar (Jeddah group will have regular Connects)	
Dec 8/9	Multi-Screen Apps Start working on Musical Structure App	Submit the Musical Structure App project Complete lessons in Multi-Screen Apps: ● Images and Visual Polish ● Activity Lifecycle and Audio Playback ● Practice Set: Activity Lifecycle and Audio Playback
Dec 15/16	Multi-Screen App Wrap up previous projects	Complete lesson in Multi-Screen App: ● Fragments
Dec 22/23	Multi-Screen App Start working on Tour Guide App	Submit the Tour Guide App Project Complete lessons in Networking: ● JSON Parsing ● Java Break: Control Flow and Conditionals ● HTTP Networking ● Practice Set: JSON Parsing and http Networking
Dec 29/30	Networking	Complete lessons in Networking: ● Threads and parallelism
Jan 5/6	Networking Start working on News App, stage 1	Submit the News App, stage 1 Complete lessons in Networking: ● Preferences

Jan 12/13	Networking Start working on News App, stage 2	Submit the News App, stage 2 Complete lessons in Data Storage: ● Database Basics ● Using a Database in an Android
Jan 19/20	Data Storage Start working on Inventory App, stage 1	Submit the Inventory App project, stage 1 Complete lessons in Data Storage: ● Introduction to Content Providers ● Loading Data Using CursorLoader
Jan 26/27	Data Storage Start working on Inventory App, stage 2	Submit the Inventory App, stage 2 Prepare questions for next session
Feb 2/3	Q&A Session	GRADUATE!

Front-end web developer nanodegree		
Date	Session	Homework
Nov 10/11	Web Foundations	Submit the Establishing Developer Mindset Project. Submit the Mockup to Article Project. Complete Lessons in Web Foundations : ● CSS Syntax ● CSS Syntax Problem Set
Nov 17/18	Web Foundations	Submit the Animal Trading Cards Project. Complete Lessons in Responsive Websites : ● HTML, CSS and Boxes ● CSS Frameworks, Responsive Layouts ● Bootstrap and other Frameworks ● Why Responsive ● Starting Small
Nov 24/25	Responsive Websites	Complete Lessons in Responsive Websites : ● Building Up ● Common Responsive Patterns ● Optimizations ● Getting Up and Running ● Units, Formats, Environments ● Images with Markup ● Full Responsiveness
Dec 1/2	No Weekly session for Riyadh & Khobar (Jeddah group will have regular Connects)	
Dec 8/9	Responsive Websites Work on Build a Portfolio Site Project	Submit the Build a Portfolio Site Project. Complete Lessons in Javascript Foundations: ● What is Javascript? ● Data Types & Variables ● Conditionals ● Loops ● Functions ● Arrays ● Objects ● Getting Up and Running ● Data Types ● FLow Control
Dec 15/16	Javascript Foundations	Complete Lessons in Javascript Foundations: ● The Basics: the DOM, $, and Selectors ● The Tricks: DOM Manipulation ● Events Listeners with jQuery
Dec 22/23	Javascript Foundations Work on Online Resume Project	Submit the Online Resume Project. Complete Lessons in Intermediate Javascript : ● Scopes ● Closures

		● The 'this' Keyword ● Prototype Chains ● Object Decorator Pattern
Dec 29/30	Intermediate Javascript	Complete Lessons in Intermediate Javascript : ● Functional Classes ● Pseudoclassical Patterns ● Superclass and Subclasses ● Pseudoclassical Subclasses ● HTML5 Canvas Basics ● From Pixels to Animation ● Writing READMEs
Jan 5/6	Intermediate Javascript	Submit the Classic Arcade Game Clone Project. Complete Lessons in Advanced Interactive Websites : ● Website Performance Optimization ● The Critical Rendering Path ● Optimizing the CRP ● The Critical Rendering Path ● App Lifecycles
Jan 12/13	Intermediate Javascript Website Optimization Project Walkthrough	Complete Lessons in Advanced Interactive Websites : ● Weapons of Jank Destruction ● Javascript ● Styles and Layout ● Compositing and Painting Start Website Optimization Project
Jan 19/20	Advanced Interactive Websites Work on Website Optimization Project	Submit the Website Optimization Project. Complete Lessons in Advanced Interactive Websites : ● Requests and APIs ● Building the Move Planner App ● Changing Expectations ● Refactoring with Separation of Concerns
Jan 26/27	Advanced Interactive Websites	Complete Lessons in Advanced Interactive Websites : ● Using an Organization Library ● Learning a New Codebase ● Getting Started with the APIs ● Understanding API services ● Using the APIs in Practice Start Neighbourhood Map Project
Feb 2/3	Course Quick Revision Work on Neighbourhood Map Project	Submit the Neighbourhood Map Project.
Feb 9/10	Start Feed Reader Testing Project. JS Testing	Submit the Feed Reader Testing Project.
Feb 16/17	Q&A Session	GRADUATE!

Intro to Programming Nanodegree		
DATE	Session	Homework
Nov 10/11	Learn to code Start working on Making your first project	Submit Making your first project Complete lessons in Make a Stylish Webpage: ● Getting Focused ● Creating a Structured Document ● Work Session: HTML Structure ● Adding CSS for Style ● Work Session: CSS Practice
Nov 17/18	Make a Stylish Webpage Start working on Making Your Stylish Website	Submit Making Your Stylish Website Complete lessons in Code Your Own Quiz: ● Getting Set up With Python

		- Introduction to Serious Programming - Work Session: Basic Debugging - Variables & Strings - Work Session: String Manipulation
Nov 24/25	Code Your Own Quiz Wrap up previous projects	Complete lessons in Code Your Own Quiz: - Input, Function, Output - Work Session: Print vs Return - Control Flow: If Statments & While Loop - Deep Debugging
Dec 1/2	No Weekly session for Riyadh & Khobar (Jeddah group will have regular Connects)	
Dec 8/9	Code Your Own Quiz	Complete lessons in Code Your Own Quiz: - Work Session: Mad Libs Generator - Structured Data: Lists and For Loop - How To Solve Problems - Work Session: Mad Libs Continued
Dec 15/16	Code Your Own Quiz Start working on Code Your Own Quiz Project	Submit Code Your Own Quiz Project Complete Lessons in Create a Movie Website: - Getting Started - Mini Project: Take a Break
Dec 22/23	Create a Movie Website	Complete Lessons in Create a Movie Website: - Mini Project: Secrete Message - Mini Project: Draw Turtles - Mini Project: Send a Text
Dec 29/30	Create a Movie Website	Complete Lessons in Create a Movie Website: - Mini Project: Profanity Editor - Movie Website Creation - Advanced Class Making
Jan 5/6	Create a Movie Website Start working on Create a Movie Website Project	Submit Create a Movie Website Project Complete All Lessons in Discover Your Path.
Jan 12/13	Discover Your Path Wrap Up Previous Projects	Choose Specialization. Work on Specialization Lessons
Jan 19/20	Specialization	Work on Specialization Lessons
Jan 26/27	Specialization	Submit Specialization Project
Feb 2/3	General revision and Q&A session	Graduate!!

Data Foundations Nanodegree		
Date	Homework	Session
Nov 10/11	Pass P1: Working with Data project	Welcome to the Program Finish P1: Working with Data project
Nov 17/18	Start watching videos from Introduction to Data Complete sections: - Descriptive Statistics I - Descriptive Statistics II	Introduction to Data Part 1 (Descriptive Statistics)

Nov 24/25	Continue watching videos from Introduction to Data Complete sections: • Spreadsheets 1: Getting Started • Spreadsheets 2: Manipulate Data	Introduction to Data Part 2 (Spreadsheets)
Dec 1/2	No Weekly session for Riyadh & Khobar (Jeddah group will have regular Connects)	
Dec 8/9	Continue watching videos from Introduction to Data Complete sections: • Spreadsheets 3: Analyze Data • Spreadsheets 4: Visualize Data	Introduction to Data Part 3 (Spreadsheets)
Dec 15/16	Pass P2: Analyze Survey Data	Discuss and finish P2: Analyze Survey Data
Dec 22/23	Start watching videos from SQL for Data Analysis Complete sections: • Basic SQL • SQL Joins	SQL for Data Analysis Part 1 (Basic SQL & SQL Joints)
Dec 29/30	Continue watching videos from SQL for Data Analysis Complete sections: • SQL Aggregations • SQL Subqueries & Temporary Tables	SQL for Data Analysis Part 2 (SQL Aggregations & SQL Subqueries & Temporary Tables)
JAN 5/6	Continue watching videos from SQL for Data Analysis Complete sections: • SQL Data Cleaning Work on P3: Query a Digital Music Store Database	SQL for Data Analysis Part 3 (SQL Data Cleaning) + Discussing P3: Query a Digital Music Store Database
Jan 12/13	Pass P3: Query a Digital Music Store Database	
Jan 19/20	Start watching videos from Data Visualization Complete sections: • Introduction to Data Visualization • Design	Data Visualization Part 1 (Introduction to Data Visualization & Design)
Jan 26/27	Continue watching videos from Data Visualization Complete sections: • Data Visualizations in Tableau • Making Dashboards & Stories in Tableau	Data Visualization Part 2 (Data Visualizations in Tableau & Making Dashboards & Stories in Tableau)
Feb 2/3	Pass P4: Data Visualization Project	Finish & GRADUATE
Feb 9/10	Q&A Session	GRADUATE!

Business analyst Nanodegree		
Week-end	Before session	Session
Nov 10/11	Start watching videos from Problem Solving with Analytics Pass P1-1: Predicting Diamond Prices	Welcome to the Program Finish P1-1: Predicting Diamond Prices

Nov 17/18	Continue watching videos from Problem Solving with Analytics <u>Pass</u> P1-2: Predicting Catalog Demand	Finish P1-2: Predicting Catalog Demand
Nov 24/25	Start watching videos from Data Wrangling <u>Pass</u> P2-1: Create an Analytical Dataset	Finish P2-1: Create an Analytical Dataset
Dec 1/2	Continue watching videos from Data Wrangling No Weekly session for Riyadh & Khobar (Jeddah group will have regular Connects)	
Dec 8/9	Finish watching videos from Data Wrangling <u>Pass</u> P2-3: Create Reports from a Database	Finish P2-3: Create Reports from a Database
Dec 15/16	Start watching videos from Data Visualization	Discussion on Data Visualization
Dec 22/23	Continue watching videos from Data Visualization <u>Pass</u> P3: Visualizing Movie Data	Finish P3: Visualizing Movie Data
Dec 29/30	Start watching videos from Classification Models	Discussion on Classification Models
JAN 5/6	Continue watching videos from Classification Models <u>Pass</u> P4: Predicting Default Risk	Finish P4: Predicting Default Risk
Jan 12/13	Start watching videos from A/B Testing	Discussion on A/B Testing
Jan 19/20	Continue watching videos from A/B Testing <u>Pass</u> P5: A/B Test a New Menu Launch	Finish P5: A/B Test a New Menu Launch
Jan 26/27	Start watching videos from Time Series Forecasting	Discussion on Time Series Forecasting
Feb 2/3	Continue watching videos from Time Series Forecasting <u>Pass</u> P6: Forecast Video Game Sales	Finish P6: Forecast Video Game Sales
Feb 9/10	Start watching videos from Segmentation and Clustering	Discussion on Segmentation and Clustering
Feb 16/17	Continue watching videos from Segmentation and Clustering <u>Pass</u> P7: Combining Predictive Techniques	Finish P7: Combining Predictive Techniques
Feb 23/24	Q&A Session	GRADUATE!

Machine Learning Nanodegree		
Date	Homework	Session
Nov 11	Start watching videos from Machine Learning Foundations Complete sections: ● Sections up to: Bayesian Learning ● Complete Introductory Project *optional*	Welcome to the Program Machine learning Foundations
Nov 18	<u>Pass</u> Predicting Boston Housing Prices Project Start watching videos from Supervised Learning Complete sections: ● Supervised Learning Intro ● Intro to Regression ● More Regressions	Regressions, Finish Housing Prices Project
Nov 25	Continue watching videos from Supervised Learning Complete sections:	Decision Trees and Neural Networks

	- Regressions in sklearn - Decision Trees - More Decision Trees - Neural Networks - Neural Networks Mini-Project	
Dec 2	No Weekly session	
Dec 9	Continue watching videos from Supervised Learning Complete sections: - Math behind SVMs - SVMs in practice - Instance Based Learning - Naive Bayes - Bayesian Learning	Discuss models covered in homework
Dec 16	Continue watching videos from Supervised Learning Complete sections: - Bayesian Inference - Bayes NLP Mini-Project - Ensemble Bagging & Boosting - Start working on Finding donors for Charity Project	Discuss Bagging, Boosting methods and Finding donors for Charity Project
Dec 23	<u>Pass</u> Finding donors for Charity Project Start watching videos from Unsupervised Learning Complete sections: - Intro to Unsupervised Learning - Clustering - More Clustering - Clustering Mini-Project	Finish Finding donors for Charity Project Discuss Clustering
Dec 30	Continue watching videos from Unsupervised Learning Complete sections: - Feature Scaling - Feature Selection - PCA - PCA Mini-Project	Discuss Feature, scaling, selecting, and engineering
Jan 6	Continue watching videos from Unsupervised Learning Complete sections: Feature Transformation <u>Pass</u> Identifying Customers Project	Finish Identifying Customers Project
JAN 13	Start watching videos from Reinforcement Learning Complete sections: - Introduction to Reinforcement Learning - Markov Decision Process - Reinforcement Learning - Game Theory - More Game Theory	Reinforcement Learning discussion
Jan 20	<u>Pass</u> Train a cab to drive itself Project	Finish Train a cab to drive itself Project
Jan 27	Start watching videos from Deep Learning Start sections: Deep Neural Networks	Deep Learning discussion
Feb 3	Continue watching videos from Deep Learning Complete sections: Deep Neural Networks	Deep Learning discussion

Feb 10	Start watching videos from Deep Learning Start sections: ● Convolutional Neural Networks	Deep Learning discussion
Feb 17	Continue watching videos from Deep Learning Complete sections: ● Convolutional Neural Networks	Deep Learning discussion
Feb 24	<u>Pass</u> Deep Learning Project	Finish Deep Learning Project
Mar 3	Start Writing up a Capstone Proposal Project	Project selection discussion
Mar 10	Complete Writing up a Capstone Proposal Project	Finish Writing up a Capstone Proposal Project
Mar 17	Start working on Machine Learning Capstone Project	Project discussion
Mar 24	Continue working on Machine Learning Capstone Project	Project discussion
Mar 31	Complete Machine Learning Capstone Project	Graduate!