

Monday

Java

- High Level (WORA, JDK/JRE/JVM, OOP, etc)
- Scopes
- OOP
 - Interfaces
 - Abstract Classes
- Threads
- Logging (Log Levels, Config / log4j2.xml)
- JUnit
- Streams API
- Design Patterns (Singleton, Factory, DAO)
- Maven Lifecycles
- JDBC

SQL

- General Overview
 - SQL commands
 - WHERE and HAVING
 - ORDER BY and GROUP BY
 - Scalar / Aggregate Functions
 - Joins and Set Operators
 - Indexes
 - Views
- Normalization
- ACID Properties
- Read Phenomena

Monday Exercises / Assignments

- Java / SQL Hackerrank

Tuesday

- HTML / CSS Review (necessary for Angular)
 - Elements and Attributes
 - Selectors and Properties
 - Bootstrap (?) - have a video that I've shared with them.

- **Web Services**
 - Http Recap
 - Servlets
 - ServletContainer, ServletConfig
 - Deployment Descriptor
 - Interface / Class Hierarchy
 - Front Controller
 - HttpSession
 - Front Controller
 - REST / Endpoints
- JavaScript
 - Scopes
 - DOM Manipulation
 - Objects
 - JSON (parsing and stringifying XMLHttpRequests mostly)
 - Asynchronous functions
 - AJAX
 - Fetch API
 - Promises

Tuesday Exercises / Assignments

- API: Pick an existing api and create an interactive webpage (i.e. PokeApp)

Wednesday

Application Architecture:

- Back End: Entities, Repo, Service, Controller layers
- Front End: Presentation and Application Layer
- Connecting front and back end

Application Set Up and Config

- Steps and debugging techniques

AWS

- Group research exercise
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Wednesday

- Quizzes - Java, SQL, HTML/CSS/JavaScript/Servlets

Thursday

- 1-on-1s

Friday

- P1 Presentation