Full Stack Development
Containers, Microservices and UI

0. Course Introduction

Overview

- Full stack development

- Modern container architecture

- DevOps and CICD

- Building Microservices

- Working with data in a full stack app

- User interface frameworks Angular and React

- Orchestration with Kubernetes

Introduction

- Learn by doing
  - There will be a strong emphasis on demo and labs
  - How much material we cover is not as important as the amount of material you actually learn
  - Hypothetical problem scenarios will be posed during class for discussion
  - There will be no reading from slides – they are only a guide

- Be interactive
  - I will be soliciting your insights, feedback and questions so you have to be present and ready to contribute

- Interactive documentation
  - We will rely throughout the course on current online documentation
  - More detailed materials are available in the repository

Logistics

- Class hours are 9-5 EST
    - One hour for lunch 12-1
    - Two 15 minute breaks mid-morningish and mid-afternoonish
    - Last hour of each day is reserved for questions, hands-on and discussion
        - No new material will be introduced after 4pm

- Lab machines will be provided
    - They will be available 24/7 for the duration of the class
    - You may use your own machines if you want but there is no time during class to help students with set-up issues on their own machines.
        - A full setup spec is available in the repository

- Course materials
    - Available for download at https://github.com/ExgnosisClasses/FSDApril24
    - This will be updated during the class and will be available until May 24, 2023

Rod Davison

45 years experience

Academia (math, linguistics, cognitive science)
Artificial Intelligence R and D
Software Development
Data Analytics – Social Research
Project Manager
Quality and Testing
Business Analysis
Consulting and Training

Introductions

- Please introduce yourself
  - Name you prefer to be known by in class
  - Your area of expertise or specialization (developer, tester, etc.)
  - Technical background and experience with full stack development
  - Specific goals or expectations for what you hope to learn

The Class Project

- We will be doing a full stack project in class
  - The class will decide what the project is - we will not be doing any sort of pre-canned project
  - In other words, there will be no "answer in the back of the book"

- Why are we doing this?
  - To get an understanding of how we go from an initial concept to application delivery
  - To get a big picture overview of how the full stack tool chain is used in the context of a project
  - To get a chance to think creatively as a developer - the sort of thing we have do in the real world
  - To develop a feel for how to assess the quality of a solution - strengths and weaknesses
  - It's fun

- Everyone must submit a suggestion for the project at the start of day 2
  - The class will vote for the idea they like the most
  - The instructor has god-like veto powers over the decision

Questions?

End Module