

### **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

#### This is a beta version of the class

- That means that it will be modified on the fly with feedback from students

### 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

- This may change if LearnQuest changes the times for the classes
- 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/FSDNov28-Student
- This will be updated during the class and will be available until Jan 9, 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





