

Course Objectives:

The objective of the course is to provide more intermediate coders with a knowledgeable understanding of several types of useful algorithms in Java. Participants will leave with knowledge of how to create and apply these algorithms to real life situations.

Logistics:

Course will be run over Google Meet every Sunday from March 13, 2022 - April 10, 2022 at 3:00pm - 4:00pm EST.

Course Outline:

- **Lesson 1 - Search and Sort**
 - Review of classes and arrays
 - Search and sort methods including bubble sorts and binary searches
- **Lesson 2 - Pathfinding 1**
 - Dijkstra's
 - A*
- **Lesson 3 - Pathfinding 2**
 - RRT
 - D*
- **Lesson 4 - Compression**
 - Lossy Compression
 - Lossless Compression
- **Lesson 5 - Dynamic Programming**
 - Recursion vs. Dynamic
 - Simple applications
 - AI

Contact Us:

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