Name: Harshal Harikrishna Dave
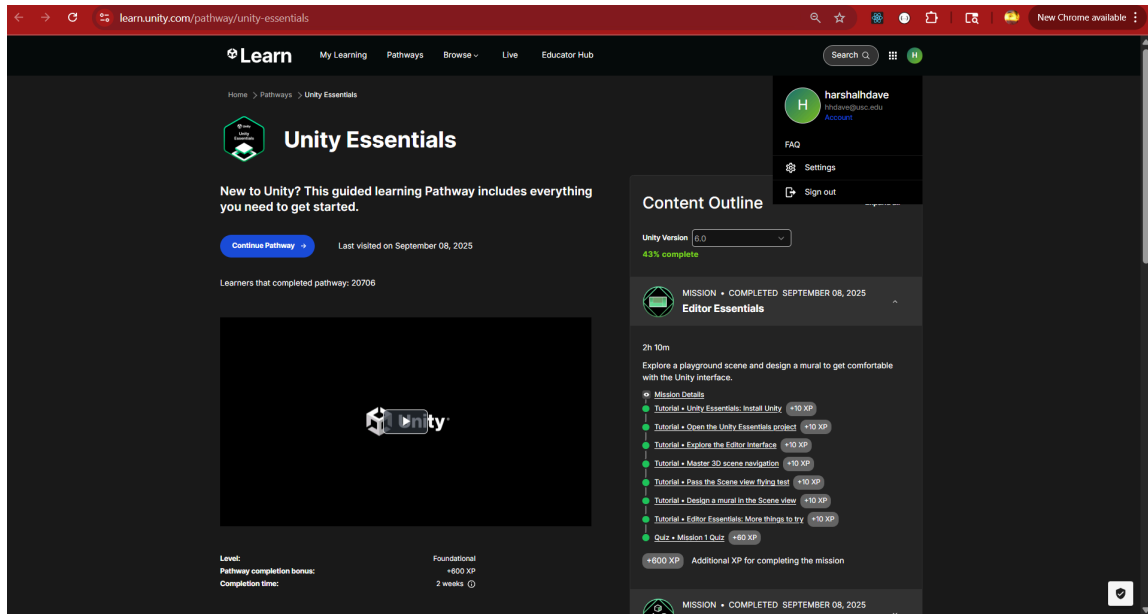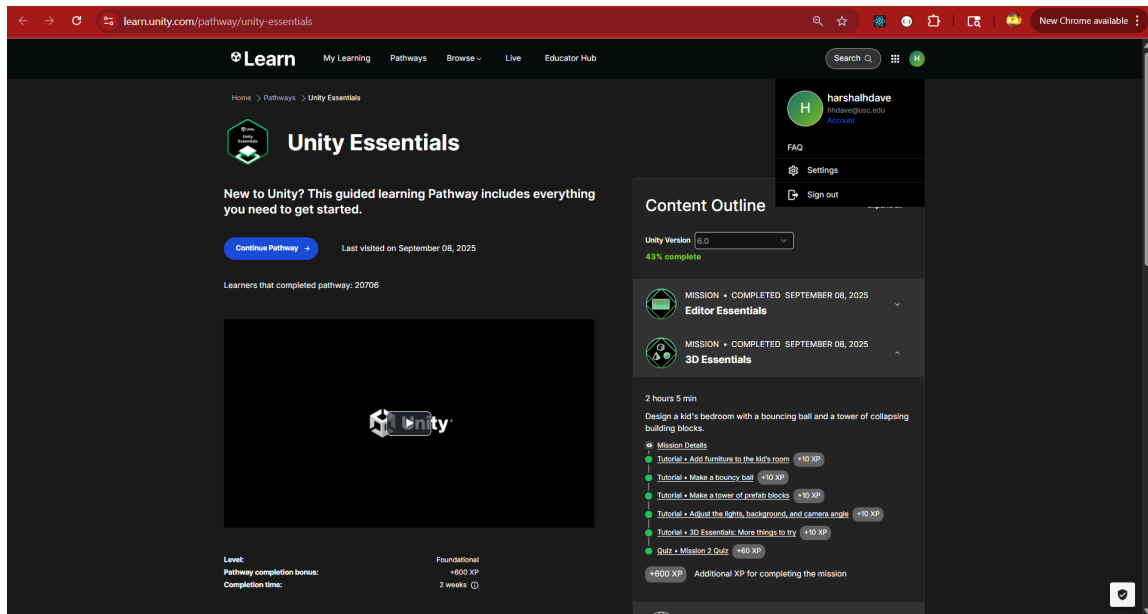**CSCI 526 HW 1 - Unity Essentials & Junior Programming**

Unity Essentials Pathway

- Mission 1: Editor Essentials

- Mission 2: 3D Essentials

Deliverable Link: https://harshalhdave.github.io/CSCI502HW1/Essentials_Mission_2/

- Mission 4: Programming Essentials

Deliverable Link: https://harshalhdave.github.io/CSCI502HW1/Essentials_Mission_4/

- Mission 5: 2D Essentials

Deliverable Link: https://harshalhdave.github.io/CSCI502HW1/Essentials_Mission_5/

harshalhdave
hhdave@usc.edu
Account

FAQ

⚙ Settings

↪ Sign out

Unity Essentials

New to Unity? This guided learning Pathway includes everything you need to get started.

See Completion Details → Completed on September 09, 2025

Learners that completed pathway: 20752

Level: Foundational
Pathway completion bonus: +600 XP
Completion time: 2 weeks ⓘ

Content Outline

Unity Version [6.0 ⌄]

100% complete

MISSION • COMPLETED SEPTEMBER 08, 2025
Editor Essentials ⌄

MISSION • COMPLETED SEPTEMBER 08, 2025
3D Essentials ⌄

MISSION • COMPLETED SEPTEMBER 09, 2025
Audio Essentials ⌄

MISSION • COMPLETED SEPTEMBER 09, 2025
Programming Essentials ⌄

MISSION • COMPLETED SEPTEMBER 09, 2025
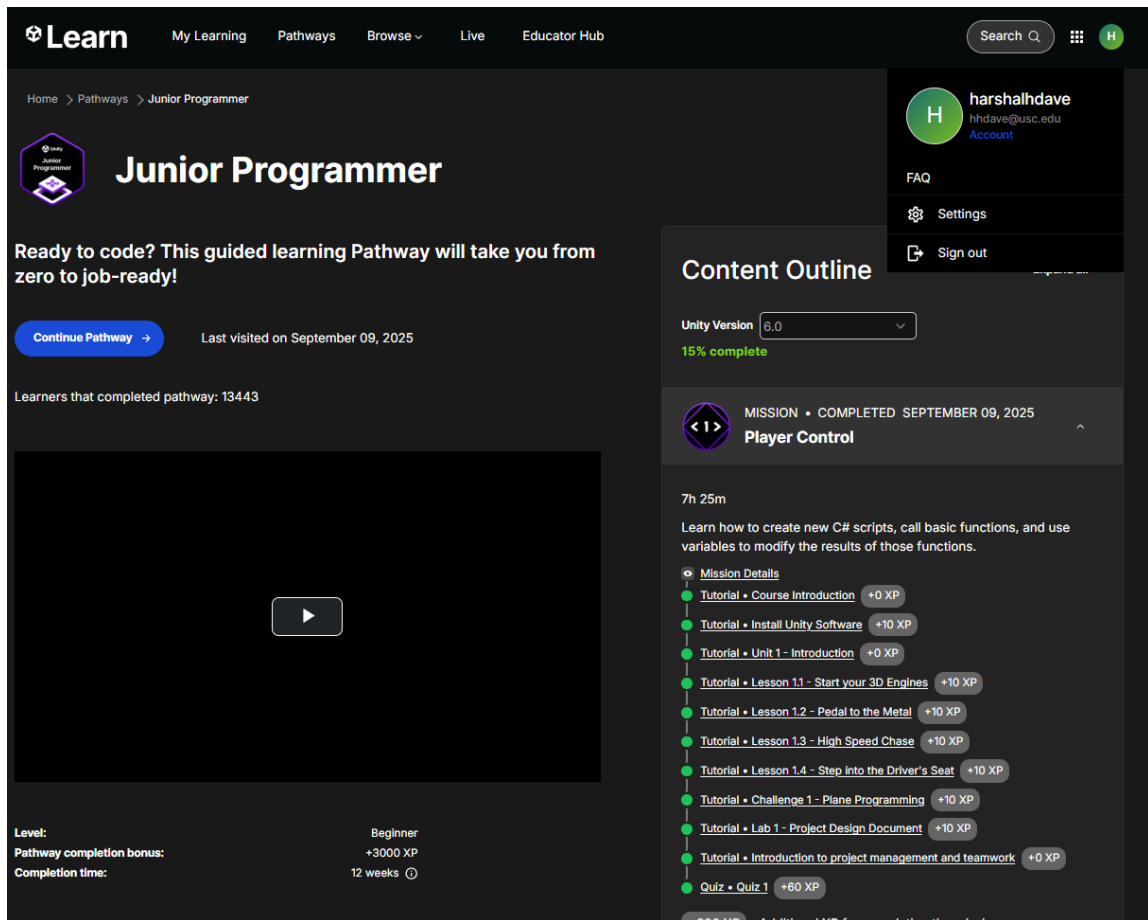**2D Essentials** ⌄

MISSION • COMPLETED SEPTEMBER 09, 2025
Publishing Essentials ⌄

Unity Junior Programming Pathway

- Car Prototype:

  Deliverable Link: https://harshalhdave.github.io/CSCI502HW1/JP_Car_Prototype/

- Plane Prototype:
  - The plane has some velocity without user input (non-stationary): 40
  - The plane moves forward, not backward: max rotation angle = ±80°
  - The plane moves at a reasonable speed (not too fast): 40
  - Plane tilts with up/down arrows, and nothing else: added arrow keys as propeller direction, hence an up arrow key takes the plane in downward direction and the down arrow key takes the plane in upward direction.
  - The camera is beside the plane, not in front of it: 40 units away from the plane.
  - The camera follows the plane: yes
  - The level has obstacles: the plane cannot cross them.

Deliverable Link:
https://harshalhdave.github.io/CSCI502HW1/JP_Plane_Prototype/

- Design Doc:
https://docs.google.com/document/d/1wmOYL_h_htvmhDRZ-7P-iF3OO_eTfl7ZayjydTt mgnU/edit?usp=sharing

- Introduction to Project Management and Teamwork: