CSCI 39547 - Projects in Computer Science

Instructor: Melissa Lynch

Tuesday and Thursday 3:20 PM - 5:40 PM

Course Description

This course is meant to be an introduction to some of the popular tools used for fullstack web development. It is meant as an opportunity for Computer Science students to: build their online portfolios; practice working collaboratively with peers on the same codebase; learn about tools for fullstack development, so that they continue to work on personal projects even after the course ends.

Prerequisites: Students must have taken CSCI 235 before taking this course. It is recommended that you are very comfortable writing and testing code on your own, and have basic experience with git/GitHub as well as vanilla JavaScript, HTML, and CSS.

Topics

- How to work collaboratively using git and GitHub
- JavaScript, HTML, and DOM Manipulation
- ReactJS
- React-Redux
- Making external API requests
- React Router and client-side routing in a SPA
- NodeJS
- Express/RESTful APIs
- PostgresQL/Sequelize

Grading breakdown

- Assignments (60 pts)

  - 6 assignments, 10 points each

- Projects (80 pts)

  - CRUD App (60 pts)
  - Final Presentation (20 pts)

- Exit assesment (10 pts)

You MUST pass the exit assessment in order to pass the course.

Hunter Policies

Policy on Academic Integrity: Hunter College regards acts of academic dishonesty (e.g. plagiarism, cheating on examinations, obtaining unfair advantage, and falsification of records and official documents) as serious offenses against the values of intellectual honesty. The College is committed to enforcing the CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures.

ADA Compliance: In compliance with the American Disability Act of 1990 (ADA) and with Section 504 of the Rehabilitation Act of 1973, Hunter College is committed to ensuring educational parity and accommodations for all students with documented disabilities and/or medical conditions. It is recommended that all students with documented disabilities (Emotional, Medical, Physical and/ or Learning) consult the Office of AccessABILITY located in Room E1124 to secure necessary academic accommodations. For further information and assistance please call (212-772-4857)/TTY (212-650-3230).

Hunter College Policy on Sexual Misconduct: In compliance with the CUNY Policy on Sexual Misconduct, Hunter College reaffirms the prohibition of any sexual misconduct, which includes sexual violence, sexual harassment, and gender-based harassment retaliation against students, employees, or visitors, as well as certain intimate relationships. Students who have experienced any form of sexual violence on or off campus (including CUNY-sponsored trips and events) are entitled to the rights outlined in the Bill of Rights for Hunter College.

a. Sexual Violence: Students are strongly encouraged to immediately report the incident by calling 911, contacting NYPD Special Victims Division Hotline (646-610-7272) or their local police precinct, or contacting the College's Public Safety Office (212-772-4444).

b. All Other Forms of Sexual Misconduct: Students are also encouraged to contact the College's Title IX Campus Coordinator, Dean John Rose (jtrose

@hunter.cuny.edu or 212-650-3262) or Colleen Barry (colleen.barry @hunter.cuny. edu or 212-772-4534) and seek complimentary services through the Counseling and Wellness Services Office, Hunter East 1123. CUNY Policy on Sexual Misconduct Link: http://www.cuny.edu/about/administration/offices/la/Policy-on-Sexual-Misconduct-12-1-14-withlinks.pdf