

# Hackbright Fellowship



## Week 1

- Logistics / What to Expect
- Intro to Command Line
- Conditionals and Looping
- Git / Github
- Functions
- Lists, Tuples, and Sets
- Computer Memory

## Week 2

- Dictionaries
- More Command Line
- Algorithm: Markov Chains
- Twitter API
- Classes / Object Orientation

## Week 3

- HTML
- CSS
- Flask
- Cookies and Sessions
- Bootstrap
- Introduction to Testing

## Week 4

- Relational Databases / SQL
- Using DBs from Python/Flask
- Javascript
- Document Object Model
- jQuery
- AJAX & JSON

## Week 5

- SQLAlchemy
- Data Modeling
- Machine Learning
- Advanced Javascript

## Weeks 6–7

- Individual Projects
- Project Technologies
- Development Methodologies

## Weeks 8–9

- Individual Projects
- Advanced Git: Branching & Merging
- Runtime Complexity:  $O(n)$
- Recursion
- Linked Lists
- Trees and Binary Trees
- Sorting Algorithms

## Week 10

- Polishing Individual Projects
- Career Day
- Career Planning
- Introduction to Whiteboarding
- Understanding Technical Interviews

## Weeks 11–12

- Self-directed Study
- Algorithm Practice
- Group Whiteboarding
- Resume Reviews
- Career Search Support

# Fellowship Weekday Schedule

## Weeks 1–5: Intensive Lectures / Labs

9:00am	<i>(Tuesdays only)</i> Career Coffee
10:00 am	Morning Lecture
11:45 am	Lab Exercises / Pair Programming
1:00 pm	Lunch
2:00 pm	Afternoon Lecture
3:30 pm	Lab Exercises / Pair Programming <i>(Fridays: Study Hall)</i>
4:30 pm	Break/One-on-One Advisor Meetings (30 min.)
5:30 pm	<i>(Fridays)</i> Check-In
6:00 pm	Day Ends <i>(Fridays: social evening at Hackbright)</i>

## Weeks 6–10: Projects / Technologies / CompSci Lectures

9:00am	<i>(Tuesdays only)</i> Career Coffee
10:00 am	Lightning Talks, Lectures, and Standup Meetings
11:45 am	Independent Project Work
1:00 pm	Lunch
2:00 pm	Independent Project Work <i>(Fridays: Study Hall)</i>
6:00 pm	Day Ends <i>(Fridays: social evening at Hackbright)</i>

## Weeks 11–12: Self-Directed Interview Practice/Career Preparation

10:00 am	Independent/Group Study and Career Services Support
6:00 pm	Day Ends