

Rithm School Schedule + Syllabus

9:15 - 10:00 - **Warm Up / Morning Lecture**
10:00 - 12:00 - **Morning Lecture / Sprint**
12:00 - 1:15 - **Lunch**
1:15 - 3:00 - **Afternoon Lecture / Sprint**
3:00 - 6:00 - **Daily Assignment / Sprint**
6:30 - 8:00 - **Optional Meetup/Event**

Week 1 - CS Fundamentals, Intermediate JavaScript

Review

Topics Include:

- Computer Science Fundamentals
- Recursion / Debugging
- CSS Layout + Bootstrap
- Intermediate jQuery
- Hacker News Clone Sprint

Week 2 - Intermediate and Advanced JavaScript

Topics Include:

- JavaScript Array methods
- AJAX
- Pair Programming
- Hacker News Clone

Week 3 - Python Fundamentals and D3

Topics Include:

- Python Fundamentals
- File IO + OOP in Python
- Flask
- Building CRUD Applications
- SQL
- SQLAlchemy

Week 4 - Flask and SQL Fundamentals

Topics Include

- WTFForms
- Server Side Validation and Security
- Structuring Larger Backend Applications
- Optimizing SQL Queries
- Flask Sprint

Week 5 - Intermediate Flask

Topics Include:

- Database Design and Architecture
- Authentication and Authorization

Week 6 - Node and Express Fundamentals

Topics Include:

- Command Line scripts with Node
- Testing with Jest
- Building Applications with Node and Express
- Databases with PostgreSQL

Week 7 - Advanced JS, Node and Express

Topics Include:

- Integration and End-to-End testing
- Securing JSON APIs
- Complex Data Modeling with PostgreSQL
- Building, Testing and Securing APIs with Node

Week 8 - React Fundamentals

Topics Include:

- Webpack,
- JSX
- State, Props and Events
- React Sprint

Week 9 - Intermediate React, Redux

Topics Include:

- React Router
- Redux
- Redux-thunk
- Building JSON APIs

Week 10 - Full Stack React/Redux

- Adding Authentication with React and Redux
- React/Redux Project

Weeks 11/12/13 - Company Projects, Data Structures and Algorithms

Topics Include:

- Recursion and Big O Review
- Two Pointer Problems
- Searching and Sorting Algorithms
- Linked Lists
- Stacks and Queues
- Binary Search Trees and Heaps
- Hash Tables and Graphs
- Dynamic Programming

Weeks 14/15/16 - Outcomes

Topics Include:

- Resume Finalization
- Job Search Planning
- Whiteboarding Prep
- Salary Negotiation