

Week 1 Online - Introduction to JavaScript

- Monday
 - Expressions Learning Objectives (Repeated)
 - Intro to Functions Learning Objectives (Repeated)
 - How to Learn
 - Number Type Demo
 - String Type Lecture
 - String Type Demo
 - Boolean Type Lecture
 - Boolean Type Demo
 - Comparison Operators Demo
 - Variables Demo
 - Function Lecture
 - Average Walkthrough
- Tuesday
 - Control Flow & Arrays Learning Objectives (Repeated)
 - Conditionals Demo
 - Loops Demo
 - Array Lecture
- Wednesday
 - Intermediate Function Learning Objectives (Repeated)
 - Function Expression Syntax Demo
 - Mutability Demo
 - Array Push, Pop, Shift, Unshift Demo
 - Nested Loops
 - Pairs in Array
 - Unique Pairs in Array
- Thursday
 - Helper Functions
 - For Each Demo
 - Map Demo
 - Filter Demo
 - Reduce Demo
- Friday
 - SEH Examples

Week 2 Online - Introduction to JavaScript

- Monday
 - Running JS Locally Objectives (Revisited)

- Basic Terminal Navigation
- Navigating in VS Code
- Running NodeJS
- Tuesday
 - POJO Learning Objectives (Revisited)
 - Pair Programming Learning Objectives (Revisited)
 - Object Lecture
 - Primitive vs Reference
 - Object Destructuring
 - Spread and Rest
 - Pair Programming Demo
- Wednesday
 - Callbacks Learning Objectives (Revisited)
 - Using Callback Functions Demo 1
 - Using Callback Functions Demo 2
 - Multiple Callbacks Demo
 - My For Each Demo
 - My Map Demo
 - My Filter Demo
 - My Every Demo
- Thursday
 - Scope Learning Objectives (Revisited)
 - Scope Lecture
 - Variables & Scope Code Demo Part 1
 - Variables & Scope Code Demo Part 2
 - Closure Lecture
 - Closure Code Demo
 - Context Lecture
 - Context Code Demo
 - Arrow Functions Code Demo
- Friday
 - Continue working, review for your assessment

Week 3 Online - Intermediate JavaScript

- Monday
 - Asynchronous JS Learning Objectives (Revisited)
 - Synchronous vs Asynchronous Lecture
 - SetTimeout Lecture
 - SetInterval Lecture
 - Threading Lecture
 - Call Stack Lecture
 - Event Loop Lecture

- User Input Demo
- Tuesday
 - Node vs Browser Lecture
 - File I/O Demo
 - What's In a Git Repo?
 - Git Diff Code Demo
 - Git Reset Code Demo
 - Git Rebase Code Demo
 - Pull Request Workflow Lecture
 - Merge Conflict Resolution Demo
 - Advanced Checkout Demo
- Wednesday
 - Navigation
 - Common Tasks
 - Shell Basics
 - Shell Scripting
- Thursday
 - A Case Study
 - The Recursive Call Stack
 - Sum Walkthrough
 - Flatten Walkthrough
 - Fibonacci Walkthrough
 - Factorial Walkthrough
 - Exponent Walkthrough
 - Debugging Walkthrough
- Friday
 - Interpolating Strings Code Demo
 - Function Hoisting Lecture
 - Symbols as Keys in Objects Code Demo

Week 4 Online - Intermediate JavaScript

- Monday
 - Browser Basics Learning Objectives (Recall)
 - Browser and BOM Lecture
 - Request/Response Cycle Lecture
 - Window Object Lecture
 - Browser Cookies Lecture
- Tuesday
 - Element Selection Learning Objectives (Recall)
 - Selecting and Creating Elements Demo
 - Appending Elements Demo
 - Updating Elements Demo

- Wednesday
 - Event Handling Learning Objectives (Recall)
 - Common Page Events Demo
 - Form Validation Demo
 - HTML Drag and Drop Demo
 - Using Event.target
 - The Bubbling Principle Demo
- Thursday
 - JSON Learning Objectives (Recall)
 - Storage Learning Objectives (Recall)
- Friday
 - Simple Application Design

Week 5 Online - Object-oriented programming

- Monday
 - NPM Learning Objectives (Recall)
 - Introduction to built-in node packages
 - Introduction to npm
 - Using npm - Part One
 - Using npm - Part Two
 - Ignoring Things in Git
- Tuesday
 - JavaScript Classes (Recall)
 - Class Declarations in JavaScript
 - CommonJS Modules Use
 - CommonJS Exports and Require Example
- Wednesday
 - OOP Learning Objectives (Recall)
 - The Single-Responsibility Principle
 - The Liskov Substitution Principle
 - The Law of Demeter
- Thursday
 - Writing Your Own ES6 Modules
- Friday

Week 6 Online - Promises, Testing, ant HTTP

- Monday
 - HTTP Learning Objectives
 - HTTP Basics
 - HTTP Requests

- HTTP Responses
- Request-Response in the Browser
- Your First Server
- Tuesday
 - Promises Learning Objectives Day 1 (Recall)
 - Promises, Part 1
 - Promises, Part 2
 - Fetch API Using node-fetch
- Wednesday
 - Promises Learning Objectives Day 2 (Recall)
 - HTML Learning Objectives (Recall)
 - Async and Await
- Thursday
 - Testing Objectives (Recall)
 - Automated Testing Introduction
 - Reading Tests Code Demo
 - Writing Tests Code Demo Part One
 - Writing Tests Code Demo Part Two
- Friday

Week 7 Online - Data Structures and Algorithms

- Monday
 - GitHub Profile and Projects Objectives
 - Improving Your Profile Using GitHub
 - Your GitHub Identity
- Tuesday
 - Big-O Learning Objectives (Recall)
 - Memoization and Tabulation Objectives (Recall)
 - Big O - Simplification
 - Big O - Constant, Linear, Logarithmic Math
 - Big O - Constant, Linear, Logarithmic Code
 - Big O Analysis of Linear Search
 - Big O Analysis of Binary Search
 - Big O Analysis of Merge Sort
 - Big O - Polynomial, Exponential, Factorial Math
 - Big O - Polynomial, Exponential, Factorial Code
 - Big O Analysis of Bubble Sort
 - Memoization - Part 1
 - Memoization - Part 2
 - Tabulation
- Wednesday
 - Sorting Algorithms Objectives (Recall)

- Thursday
 - Lists, Stacks, and Queues Objectives (Recall)
 - Intro to ADTs, Stacks, Queues
- Friday
 - Heaps Objectives (Recall I)
 - Heaps Lecture
 - Heap Implementation Lecture
 - Heap Sort Lecture

Week 8 Online - Getting To Know The Network

- Monday
 - White-Boarding Tips & Tricks
 - White-Boarding Tips
- Tuesday
 - Binary Trees Objectives (Recall)
 - The Tree Data Structure
- Wednesday
 - Graphs Objectives (Recall I)
 - Graph Lecture
- Thursday
 - Network Models Objectives (Recall)
 - IP Suite Objectives (Recall)
 - Network Tools Objectives (Recall)
 - Binary and Hexidecimal
 - Internet Protocol
 - Transport Protocols
 - TCP vs. UDP
 - DNS
 - DNS Walkthrough with dig
 - Network Hardware
 - (Optional) TCP Connections
 - (Optional) Compare and Contrast
 - (Optional) Layer Lingo
- Friday
 - AJAX (Recall)
 - Hello, AJAX
 - AJAX Steps
 - Project Prep
 - AJAX Demo

Week 9 Online - Fancy CSS

- Monday
 - Crafting Bullet Points Objectives
 - CSS Fundamentals Objectives
 - Crafting Bullet Points
 - Crafting Bullet Points Lecture
 - Getting CSS Into Your HTML
 - CSS Selectors
 - CSS: Type, Properties And Imports
 - CSS: Colors, Borders, and Shadows
 - Attributes and Selectors Lecture
- Tuesday
 - Media Query Objectives (Recall)
 - Box Model and Positioning Objectives (Recall)
 - Flexible Box Model Objectives (Recall)
 - Grid Layout Objectives (Recall)
 - Media Queries
 - Media Queries Lecture
 - Looking at Layout
 - Flexing The Flexbox
 - Girding The Grid
- Wednesday
 - Interactivity Objectives (Recall)
 - CSS Maintainability Objectives (Recall)
 - BEM - Block, Element, Modifier
 - Button Hover Effect
- Thursday
- Friday

Week 10 Online - Relational Databases

- Monday
 - Make It Pretty Objectives
 - RDBMS And Database Entity Objectives
 - Make It Pretty - Part I
 - Make It Pretty - Part II
 - Make It Pretty Exercise
 - For The Love Of Data
 - Creating Database Entities
 - Database Lingo
 - Installing PostgreSQL on Windows
 - Installing PostgreSQL on macOS
 - User Management Walk-Through
 - Database Management Walk-Through

- Table Management Walk-Through Part 1
- Table Management Walk-Through Part 2
- Tuesday
 - SQL Objectives (Recall)
 - Inserting Data
 - Updating Data
 - Deleting Data
 - Selecting Simple Data
 - Joining Tables
- Wednesday
 - SQL Objectives (Recall IV)
 - Relational Database Design Lecture
 - Transactions Lecture
 - Subqueries Lecture
 - Explain EXPLAIN Lecture
- Thursday
 - ORM Objectives (Recall)
 - Database Migrations Lecture
 - Inserting With Sequelize Lecture
 - Updating With Sequelize Lecture
 - Deleting With Sequelize Lecture
 - Querying with Sequelize Lecture
 - Associations with Sequelize Lecture
- Friday

Week 11 Online - Full-Stack Applications

- Monday
 - Regular Expression Objectives
 - Node HTTP Objectives
 - A Gentle Introduction to Regex
 - Regex In JavaScript
 - Node.js Web Applications Lecture
 - Node.js Web Applications Demo
- Tuesday
 - Express Objectives (Recall)
 - Pug Objectives (Recall)
 - Express Introduction
 - Your First Express App
 - Rendering HTML From A Template
 - Exploring Route Paths - Part 1
 - Exploring Route Paths - Part 2
- Wednesday

- HTML Form Objectives (Recall)
 - Pug.js Overview
 - HTML Forms Lecture
 - Express Middleware Lecture
- Thursday
 - Full-Stack Objectives (Recall)
- Friday

Week 12 Online - Full-Stack Applications

- Monday
 - Plan Your Projects
 - Group Project Planning
 - Setting Up Your Group's Repository
- Tuesday
 - Authentication Learning Objectives (Recall)
 - Cryptography Lecture
 - Authentication Lecture
- Wednesday
 - API Learning Objectives (Recall)
 - RESTful API Lecture
 - JSON vs. HTML
- Thursday
 - API Security Objectives (Recall)
 - OAuth and JWTs Lecture
- Friday

Week 13 Online - Full-Stack Project

- Monday
- Tuesday
- Wednesday
- Thursday
- Friday

Week 14 Online - React

- Monday
- Tuesday
- Wednesday
 - Class Components Lecture

- Component Lifecycle Lecture
- Thursday
 - React Router Lecture
 - React Builds Lecture
- Friday
 - Context Lecture and Demo

Week 15 Online - Front-End State Management

- Monday
 - Redux Part 1 Objectives
- Tuesday
 - Redux Part 2 Objectives (Recall)
 - Using Redux with React Video
 - Preloaded State Video
 - Splitting and Combining Reducers
 - Container Components Video
- Wednesday
 - Redux Part 3 Objectives (Recall)
 - Front-End Auth With Redux
 - Redux Part 1 - Wiring It Up
 - Redux Part 2 - Handling Login
 - Redux Part 3 - Loading Data On Load
 - Redux Flow
- Thursday
 - Hooks Objectives (Recall)
 - React Hooks Intro
 - React Hooks Demo
 - Redux Hooks Intro
 - Redux Hooks Demo
 - React Router Hooks Demo
- Friday
 - WebSockets Objectives (Recall)
 - WebSockets Lecture
 - WebSockets Demo

Week 16 Online - Front-End Project

- Monday
 - Resume 101
 - Starting Your Resume
- Tuesday

- Wednesday
- Thursday
- Friday

Week 17 Online - Intro to Python

- Monday
 - Networking Online
 - Networking Online 1
 - Networking Online 2
 - Get Your Profile Up!
 - Objectives For The Week
 - A Second Language
 - Python Documentation
 - Reading Python
 - Python REPL
- Tuesday
 - Python Basics
 - Number Types
 - Simple Formatted Strings
 - Duck Typing
 - Arithmetic With Strings
 - Assignment Operators
 - The Meaning of Truth
 - Identity vs. Equality Demo
 - Functions In Python
 - Functions Returning Functions
- Wednesday
 - Lists In Python
 - Mutability Of And Sorting Lists
 - Doing Math With Lists
 - Tuples In Python
 - Special Case: Single Item Tuple
 - Ranges In Python
 - Dictionaries In Python
 - More Ways To Make A Dictionary
 - Sets In Python
 - Using Sets
 - Combining Data Structures
 - Built-Ins: All And Any
 - Built-Ins: Filter And Map
 - Built-Ins: Custom Sort
 - Stack And Queue Overview

- Input Validation Walk-Through
- Thursday
 - List Comprehensions Demo
 - Classes In Python Demo
- Friday

Week 18 Online - Flask, SQL Alchemy, Alembic and Unit Testing

- Monday
 - Python Unit Testing Objectives
 - Python Environment Management Objectives
 - Local Packages And Modules
 - pip, virtualenv, And pipenv
 - Writing Unit Tests With unittest
 - Writing Unit Tests With Pytest
- Tuesday
 - Flask Objectives (Recall)
 - Psycopg Objectives (Recall)
 - Decorators Demo
 - Psycopg Demo
 - Setting Up A Flask App
 - Flask Routing
 - Jinja2
 - Flask Blueprints
 - Handling Form Data With Flask I
 - Handling Form Data With Flask II
 - Flask Sessions Demo
- Wednesday
 - SQLAlchemy Objectives (Recall)
 - More About Classes
 - Flask-SQLAlchemy Set-Up Best Practices
 - Flask-SQLAlchemy: Creating Mapping Files
 - Flask-SQLAlchemy: Interact With Data
- Thursday
 - Flask-Migrate Demo
 - JSON With Flask
- Friday

Week 19 Online - Docker and Microservices

- Monday
 - Alpine Linux Objectives
 - Python Threading Objectives
 - Introduction To Threading
 - Basic Python Threading Demo
 - Installing Packages On Alpine Linux
 - Notes for Installing Packages On Alpine Linux
 - Linux Basics
- Tuesday
 - Docker Container Objectives (Recall)
 - Container Intro
 - Docker Networking
 - Persistent Data In Docker: Bind Mounts
 - Persistent Data in Docker: Volumes
 - 12 minute Docker Overview
- Wednesday
 - Dockerfile Objectives (Recall)
 - Docker Images and Layers
 - Dockerfile Building And Pushing
- Thursday
 - Docker Compose Objectives (Recall)
 - Using Docker Compose
- Friday
 - Microservice Objectives (Recall)
 - Microservice-Based Applications
 - Microservices Design

Week 20 Online - Docker and Microservices

- Monday
- Tuesday
- Wednesday
- Thursday
- Friday

Week 21 Online - JS/Py Career Quest

- Monday
 - Weekly 21 Overview
 - Setting Up Your Scorecard
- Tuesday
- Wednesday

- Thursday
- Friday

Week 22 Online - JS/Py Career Quest

- Monday
 - Weekly Learning Objectives
 - Monday Overview
 - Resume Lecture Part 1
 - Resume Lecture Part 2
 - Crafting Bullet Points
- Tuesday
 - Tuesday Overview
 - Personal Pitch Lecture
- Wednesday
 - Wednesday Overview
- Thursday
- Friday

Week 23 Online - JS/Py Career Quest

- Monday
 - Weekly Learning Objectives
 - Monday Overview
- Tuesday
 - Tuesday Overview
 - Behavioral Interviewing (Part 1)
 - Behavioral Interviewing (Part 2)
- Wednesday
 - Wednesday Overview
- Thursday
 - Thursday Overview
 - Technical Interview Prep
 - White-Boarding Tips & Tricks
 - White-Boarding Tips
- Friday
 - Friday Overview

Week 24 Online - JS/Py Career Quest

- Monday

- Weekly Learning Objectives
 - Monday Overview
- Tuesday
 - Tuesday Overview
- Wednesday
 - Wednesday Overview
- Thursday
 - Thursday Overview
 - Negotiations Lecture
 - Negotiating Notes
 - Equity
 - Financial Literacy
- Friday