CODING DOJO

# Part-Time Online

Accelerated and Flex Pacing
2-4 Hours / Week in Lecture
10-30 Hours / Week in Self-Study

**10-30 Hrs**
per week

**3 Stacks**
to choose from

**16 to 28 Wks**
flexible schedule

Over 4,500 alumni, hired by tech companies worldwide

Google amazon cisco hp UBER LinkedIn

*As of Feb 2018 alumni data

# Online Part-Time

In 16 to 28 weeks, you can transition to a career in development without quitting your day job.

This program is a flexible alternative that provides full, online access to our Python curriculum -- complete with live support and collaboration with instructors and classmates.

## Two Options to Fit Your Schedule

### ACCELERATED

**16** weeks

**25** hrs/wk

Complete web fundamentals, then choose from the following stacks:

### FLEX

**28** weeks

**14** hrs/wk

Complete web fundamentals, then start Python

ONLY Python is available through Flex at this time.

# ACCELERATED

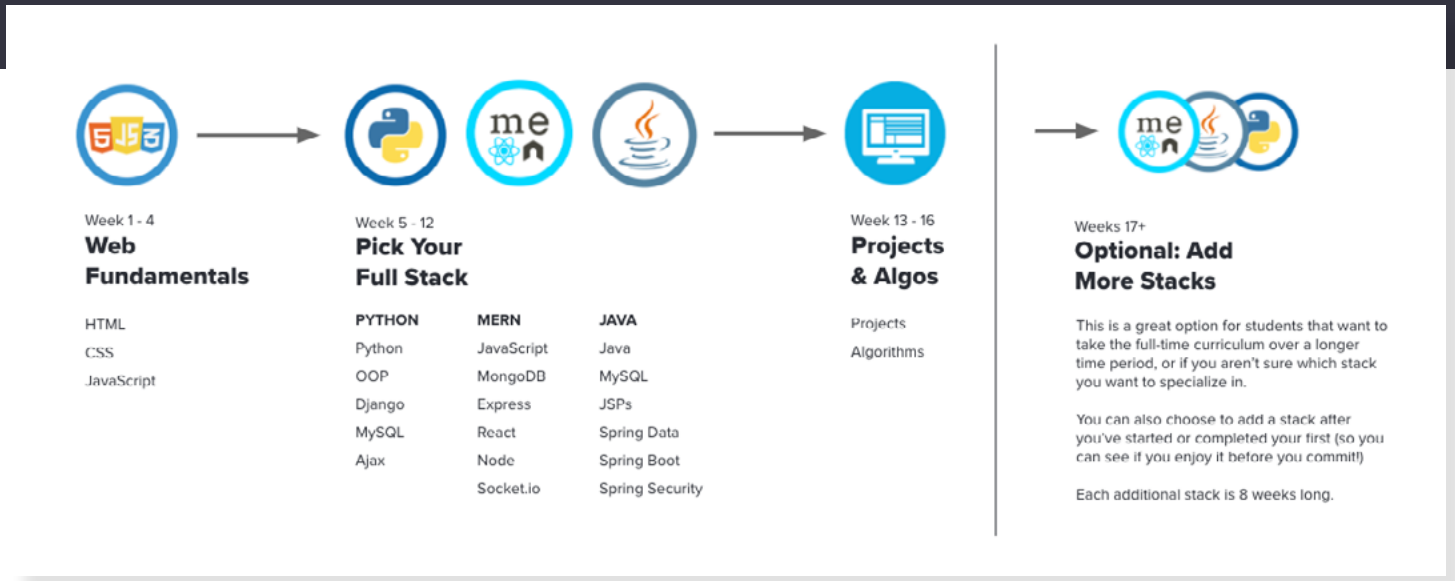
Learn to build applications in the top programming stacks of 2020. Pick between Python, MERN, or Java as your stack, or choose to extend the program and learn multiple languages.

**Awards & Recognition**

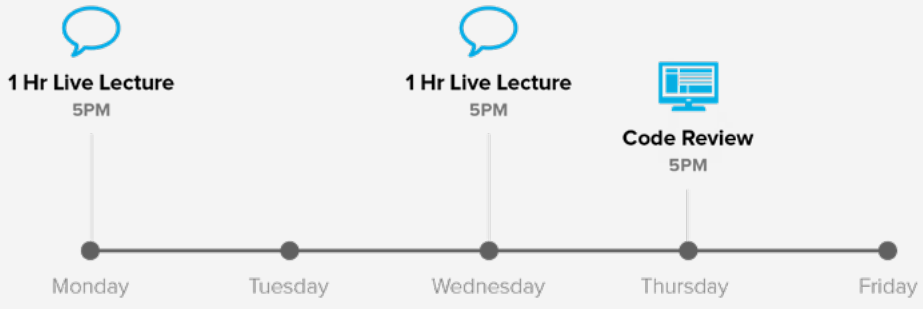
MIT Innovation Challenge **Winner**

Microsoft Virtual Academy ★★★★½ COURSE RATING

## Your Progression Plan




## A Typical Week in the Part-Time Program




*Lectures are delivered either on Mon/Wed or Tues/Thurs*
*Flex program only has one lecture per week*

**Self Study**
20-30 hours/wk in Accelerated
10-15 hours/wk in Flex

**30 min. Code Review**
available for assignment feedback and help Monday-Friday as instructors' schedule allows

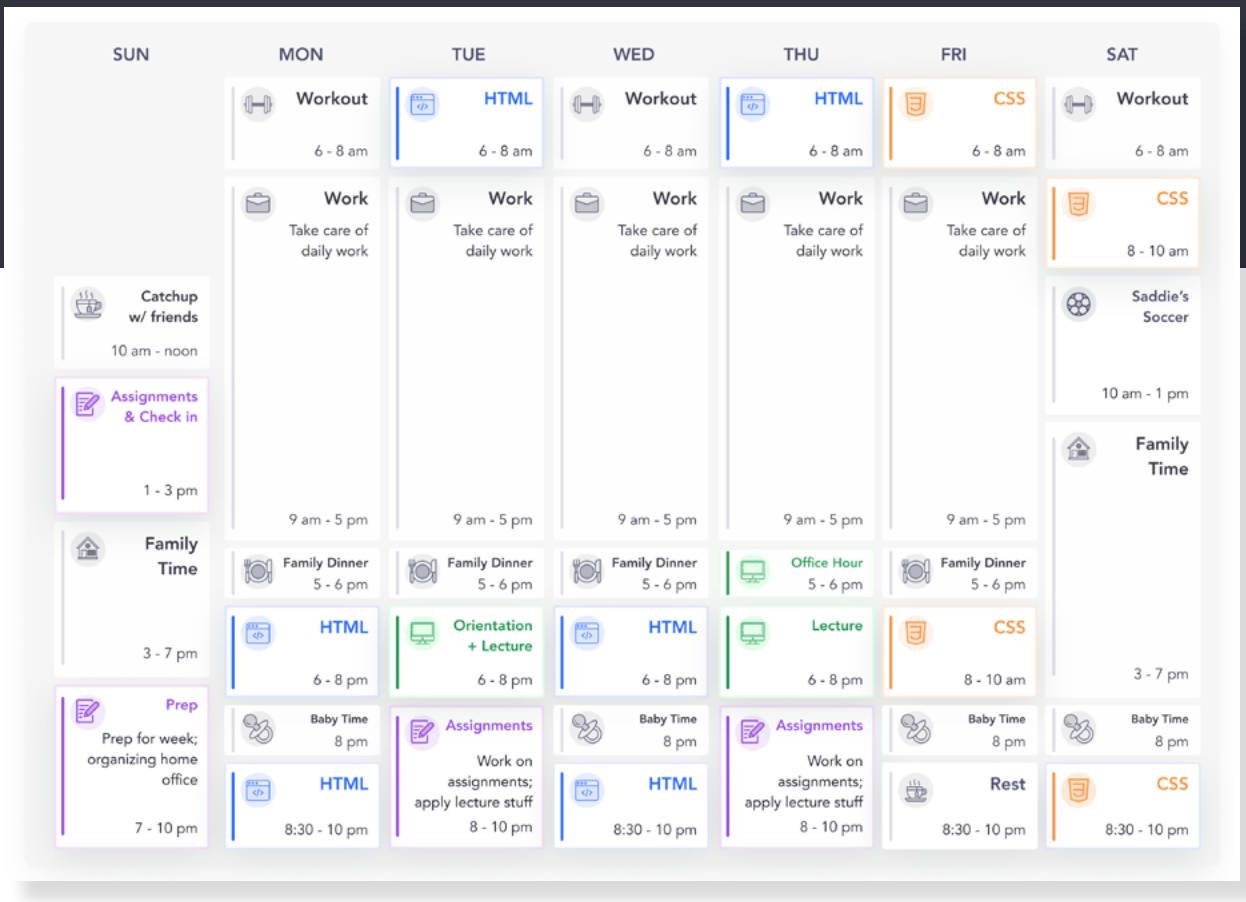
**TA Support**
Mon-Fri: 11:00am - 8:00pm
Sat: 8:00am - 6:00pm
Sun: 8:00am - 2:00pm

*All times in PST*

Activities subject to change based on campus and curriculum

# Time Management

Here's what a typical week might look like for someone who continues to work full-time as well as participate in family activities while in the Accelerated program.




## Pro Tips from Student Success

### Overestimate the time you need for self-study

The Part-Time Online program expects you to dedicate at least 20 hours per week in the learning platform working through content. So, for the first few weeks, allocate 24 hrs for that work. It is easier to scale back than scale up.

### Create a calendar and stick with it!

It sounds simple, but a calendar can be shared with family and friends to help you stay account-able and to get insight into when you're going to be heads down. It also gives you a reality check into how much time you actually spend.

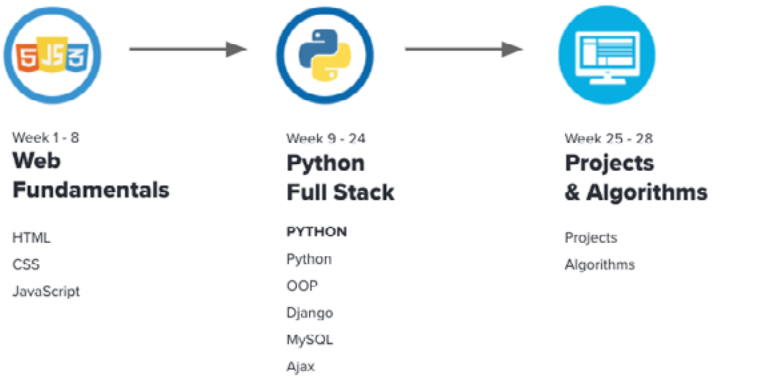
### List out responsibilities and see who can help

Create a list of your household and family responsibilities. See if you can offload any tasks or get additional help from housemates, friends, and family. If you'll be working during this time, do the same exercise with coworkers.

# FLEX

The same Python curriculum, over a longer amount of time, so you can manage the rest of your commitments more easily.

## Your Progression Plan




Unlike the Accelerated program, you do not have a choice of stack.

You also do not have the option to add any additional stacks at this time.

## Whether you choose Accelerated or Flex, we are here to support you.

### Hands-on, Structured Teaching

Dive into an immersive online learning environment filled with live mentorship, instruction, and collaboration with real instructors and classmates.

All from the comfort of your own home.

### Anyone Can Learn to Code

Anyone can learn to code, but the path to becoming a developer isn't easy. Students typically dedicate 20-30 hours a week to self-study in the accelerated program, and 10-15 hours in Flex.

*Curriculum subject to change during attendance due to mid-course improvements*

# Web Fundamentals

Front-End Development & The Web

## HTML

### Intro to HTML

- Basic Nesting Practices, Indentation
- The Head & Body
- Body Tags (lists, tables, etc.)
- Building Forms & Declaring Input Values
- Containers, Elements, Attributes, & Classes

## CSS

### Intro to CSS

- CSS Selectors & Declarations
- Inspecting Element
- Inline, Block, Float, and Positioning
- Div Layout & Formatting
- Styling Text & How Fonts Work
- Using Properties & Backgrounds
- Replicating Complete User Interfaces

### Intro to CSS3 & More Styling*

- Building Shapes
- Constructing Complex Tables
- Intro to Bootstrap
- CSS Preprocessors, LESS, & SASS

## Git / Github

### Git & Version Control

- Using Terminal Commands
- How to Create & Utilize a Repository
- Making, Tracking, & Reverting Changes
- Git Workflow Overview & States*
- Advanced Git Commands & Concepts*
- Branching, Merging, & Conflicts*

### Github

- How to Use a Github Repository
- Forking, Cloning, & Pulling*
- Github Collaboration & Workflow*

## jQuery

### Intro to jQuery

- jQuery Functions & Debugging
- Parameters & Getters/Setters
- Essentials of the jQuery Library

### Advanced jQuery

- Implementing Dynamic Content
- Callbacks in jQuery
- Traversing DOM Elements
- Forms in jQuery
- jQuery UI Library & More Libraries*

## Responsive Web Design*

### Intro to Responsive Web Design (RWD)

- Breakpoints, Units, & Media Queries
- Basics to Typesetting & Scaling
- Cross-device RWD
- Grid System, Fluid Grids, & Adaptive Layouts

### CSS Frameworks

- Responsive Typography
- Using CSS Reset & Boilerpoint

## Wireframing*

- Balsamic Overview
- Wireframing Fundamentals

*Optional topics

# Python

Full Stack Development

## MySQL

### Intro to MySQL

- Database Design & Relationships
- Entity Relationship Diagrams (ERD)
- Database Normalization
- MySQL Workbench & Querying
- Conventions & Common Data Types
- How to Use ERDs
- Using a Database with Your UI
- Recreating ERDs*

## Python

### Intro to Python

- Variables, Data Types & Best Practices
- Using Strings & Built-in String Functions
- List Creation & Manipulation
- Using Tuples & Built-in Tuple Functions
- How to Use Dictionaries in Python
- Conditionals, Operators, & Nested Loops
- Constructing Functions in Python

## Python OOP

### Intro to Object Oriented Programming

- Creating Objects & Classes
- Adding Properties/Attributes to Classes
- Constructing & Adding Methods to Classes
- Chaining Methods & Using Magic Methods
- How to Use Modules & Packages in Python
- Creating Multiple Objects
- Updating Methods with 'Super'

### Python Test Driven Development (TDD)

- Unit Testing in Python & Outcomes
- How to Use Assertions Using
- TDD Methods: setUp & tearDown

### Advanced Python

- How to Use Multiple Arguments
- Ternary Operators in Python
- Using Lambda
- Overriding Inheritance & Polymorphism
- Using Composition Over Inheritance

## Flask

### Intro to Flask

- Routing in Flask Applications
- Building & Using Forms
- Rendering Templates & Views
- Delivering Static Content
- The Different HTTP Methods
- Implementing Cookies & Sessions
- Hidden Inputs & Form Validation

### Flask w/ SQL

- Import, Export, & Connect Your Database
- Connecting & Running Python Across Files
- Database Communication & Validation
- Encryption & Data Security Basics

## Deployment

- Amazon Web Services (EC2)
- Linux
- PostgreSQL

**Optional topics*

# Java

Full Stack Development

## Java Fundamentals

### Intro to Java

- Java Development Kit Installation
- Executing Java Programs
- Variables, Data Types, & Type Casting
- Control Structures & Exceptions

## Java OOP

### Intro to Object Oriented Programming

- Creating Objects & Classes
- Methods, Member Variables & Constructors
- Overloading & *this*
- Inheritance & Packages

### Advanced Java OOP

- Use of Static
- Interfaces & Abstract Classes
- Annotations
- Java Beans

### Data Structures*

- Doubly Linked Lists
- Tries

## Java Web Development

### Java on the Web

- Servlets & Web Containers
- Query Parameters
- Java Servlet Pages
- Light MVC Patterns
- Session & POST Patterns

## Java Spring

### Spring Fundamentals

- Spring Overview
- Spring Tool Suite
- Intro to Spring Boot
- Spring MVC Apps

### Spring Data I & II

- MySQL Connections
- Repositories & Spring Data - JPA
- Persistent Model Annotations
- Relationships
- Advanced Queries

### Spring Security

- Spring Security Overview
- Authentication & Authorization
- Servlet API Integration
- Spring MVC Integration

## Deployment

- Amazon Web Services (EC2)
- Linux
- PostreSQL

**Optional topics*


# MERN

Full Stack Development

## JavaScript

### Fundamentals

- Declaring & Referencing Variables
- Variable Hoisting in JavaScript
- Conditionals, Operators, & Nested Loops
- Using Arrays & Loops in JavaScript
- Objects, Functions, & Function Scoping
- Variable Hoisting with Scoping
- Return Statements in JavaScript
- Function Hoisting

### JavaScript OOP

- How to Use Object Constructors
- Common Constructors: 'This' & 'New'
- Private Methods & Variables
- Creating Prototype Objects in JavaScript
- Best Practices for JavaScript OOP

### Advanced JavaScript

- How to Use Callbacks
- Delegating Functionality & Event Handling

## Node.JS

### Intro to Node

- How to Use Package Managers (NPM/Bower)
- File System Module & HTTP
- Making a Full Web Sever
- How to Work with Node Modules
- Common & Useful Node Modules

### Modularization

- Using Require & Module.exports
- How to Modularize Existing Projects

## Express.JS

- Render Templates With Express View Engines
- HTTP Methods: Forms, Data Tranfers, & Routing

## Socket.io

- Applications with Real-time Communication

## MongoDB

### MongoDB & Mongoose

- MongoDB Overview, CRUD Ops
- Intro to Mongoose
- Dependencies in Mongoose
- Mongoose Communication with MongoDB
- Mongoose Methods
- Data Validation with Mongoose
- Create Associations Between Mongo Objects
- RESTful Routing with Mongoose & Express

## React

- Create React App
- Class Based Components
- Props, Children, Synthetic Events
- State, LifeCycle Methods
- Functional Components
- useState, useEffect, useReducer
- context API

## Deployment

- Amazon Web Services (EC2)
- Linux
- Production Environments
- Heroku

**Optional topics*

# How to Enroll

Enrollment is open year round! It's an easy 3 step process: complete your enrollment form, create your account, and enroll directly.

Afterwards our admissions team will reach out to get you ready for the program.

1. Complete Enrollment Form
2. Create Platform Account
3. Enroll for Course

# Financing

### Standard

$1000 deposit to enroll
4 monthly payments during camp

### Monthly Plan

As low as $160/month
30/60 month terms available

Financing provided by:

SKILLSfund

Top Resources

**Online Info Session**
Link >>

**Start Application**
Link >>

**See Start Dates**
Link >>