

Introduction to Application Development

Summary: This is a three week course, meeting one day a week. We will be covering basic application development and exposing students to the key concepts and processes involved with software development. We will start with a hands on exercise, making a simple website on Github, then adding to the project each week. **Required:** Laptop with internet access.

Instructor: Michelle Phung
Contact: michellephung@gmail.com

Day 1 Github Fundamentals and Introduction to Web Development

Introductory Class - Github and Front-End Development

Set up and get started with a Github Account
Make a small web page using HTML and CSS
Publish it to the web
API, Javascript, UI and design

Day 2 Development Models and Team Structures and Databases

Databases and Back-End Development
History and context to working within a development team

Databases: SQL, NoSQL
MVC - Model View Controller
Normal tech stacks - MAMP/LAMP/WAMP
Agile/Scrum/Waterfall/Lean etc.
Continue work on Github application

Day 3 Practices and Tech Stacks in the Industry Today

Latest, up and coming technology of today

Responsive design and the Mobile Movement
Interactive data visualization websites showing cause and effect of data
Examples of work with actionable insights from data visualizations
Companies that are “doing good with data”