**NeDL Transition Academy for Nelnet**

**Individualized Professional Development Plan**

**Updated: 5/27/2021**

* Please customize your plan by highlighting your priority for each resource.
* Your plan will change as you work through the academy, talk with your Nelnet mentors, and talk with members of the Nelnet development team for which you will initially work.
* You will have Studio Time most days to work through resources on this plan.
* Use your resources not only to learn developer tools, but also as future references when you are using the developer tools.

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| **Training resources on developer tools *covered in the Transition Academy workshops***  (in the order introduced in the Transition Academy) | |
| Priority key: | C=Completed!  3=High (work through it ASAP)  2=Medium (complete it when I have some time)  1=Low (scan and be aware of it)  0=Skip it |
| **Front-end**  **tool** | **Select training resources** |
| HTML | |  |  | | --- | --- | | Resource | Priority | | [HTML Handbook](https://flaviocopes.nyc3.digitaloceanspaces.com/html-handbook/html-handbook.pdf) by Flavio Copes | **C**  3 2 1 0  Downloaded | | [Learn HTML Tutorial](https://www.w3schools.com/html/default.asp) at w3schools | **C** 3 2 1 0 | | As part of the [Responsive Web Design](https://www.freecodecamp.org/learn/responsive-web-design/) curriculum at freecodecamp | C 3 2 **1** 0 | | Lynda.com – various videos | C 3 2 **1** 0 | | Pluralsight | C 3 2  **1** 0 | | Enhance exercises to include new HTML functionality to increase understanding. | C 3 **2** 1 0 |   There are also low-cost courses at websites such as Udemy. |
| CSS | |  |  | | --- | --- | | Resource | Priority | | [CSS Handbook](https://flaviocopes.nyc3.digitaloceanspaces.com/css-handbook/css-handbook.pdf) by Flavio Copes | **C** 3 2 1 0  Downloaded | | [Learn CSS Tutorial](https://www.w3schools.com/css/default.asp) at w3schools | C **3** 2 1 0 | | Create a [bootstrap](https://getbootstrap.com/) version of a class exercise & use for class exercises when applicable. | **C**  3 2 1 0 | | As part of the [Responsive Web Design](https://www.freecodecamp.org/learn/responsive-web-design/) curriculum at freecodecamp | C 3 2 **1** 0 | | Stackoverflow – use if looking for help with code | C 3 2 **1** 0 | | Lynda.com – various videos | C 3 2 **1** 0 | | Pluralsight | C 3 2 **1** 0 | | Enhance exercises to include new CSS functionality to increase understanding. | C 3 **2** 1 0 | |
| Javascript | |  |  | | --- | --- | | Resource | Priority | | [Javascript for Beginners Handbook](https://flaviocopes.nyc3.digitaloceanspaces.com/javascript-beginner-handbook/javascript-beginner-handbook.pdf) by Flavio Copes | **C** 3 2 1 0  Downloaded | | [Learn Javascript Tutorial](https://www.w3schools.com/js/default.asp) at w3schools | C **3** 2 1 0 | | [Javascript Algorithms and Data Structures](https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/) at freecodecamp | C 3 2 **1** 0 | | Enhance exercises to include new JS functionality to increase understanding. | C 3 **2** 1 0 | |
| VS Code | |  |  | | --- | --- | | Resource | Priority | | [Watch this video first to get started with VS Code](https://youtu.be/4NfFFsQC77M) | C 3 2 **1**  0 | | [Watch this video for additional information on using VS Code](https://code.visualstudio.com/docs/introvideos/basics) | C 3 2 **1**  0 | | Add your own resource(s): | C 3 2 1 0 | |
| git/Github | |  |  | | --- | --- | | Resource | Priority | | [Introductory videos](https://git-scm.com/videos) at git-scm.com | **C** 3 2 1 0 | | [Pro Git](https://git-scm.com/book/en/v2) - a free book  Downloaded | **C** 3 2 1 0 | | [A good video](https://www.youtube.com/watch?v=Fk12ELJ9Bww) on setting up git/Github in VS Code | **C** 3 2 1 0 | | [Using git in VS Code](https://code.visualstudio.com/docs/editor/versioncontrol) at code.visualstudio.com | C 3 2 **1** 0 | | Add your own resource(s): | C 3 2 1 0 | |
| Typescript | |  |  | | --- | --- | | Resource | Priority | | A [variety of resources](https://www.typescriptlang.org/docs/) at typescriptlanguage.org | C **3** 2 1 0 | | [HTMLInputElement](https://microsoft.github.io/PowerBI-JavaScript/interfaces/_node_modules_typedoc_node_modules_typescript_lib_lib_dom_d_.htmlinputelement.html) info | C 3 2 **1** 0 | | [TS Config](https://www.typescriptlang.org/docs/handbook/tsconfig-json.html) | C 3 2 **1** 0 | | Add your own resource(s): | C 3 2 1 0 | |
| Angular | |  |  | | --- | --- | | Resource | Priority | | [Angular documentation](https://angular.io/docs) at angular.io | C 3 **2**  1 0 | | Pluralsight – Vidoes/Tutorials | C 3 **2**  1 0 | | Add your own resource(s): | C 3 2 1 0 | |
| Add your own tool | |  |  | | --- | --- | | Resource | Priority | | Research Nunit – nunit.org | C 3 2 1 0 | | TFS – Team Foundation Server – another source code repo that is used be Nelnet | C 3 2 **1** 0 | | [Bootstrap documentation](https://getbootstrap.com/) | C 3 2 **1** 0 | |  |  | |

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| **Back-end**  **tool** | **Select training resources** |
| C#.NET | |  |  | | --- | --- | | Resource | Priority | | [Learn C# Tutorial](https://www.w3schools.com/cs/default.asp) at w3schools | **C** 3 2 1 0 | | [C# Tutorial (pdf)](https://www.tutorialspoint.com/csharp/csharp_tutorial.pdf) at tutorialspoint | **C**  3 2 1 0 | | Pluralsight - C# tutorials | C 3 **2** 1 0 | | Pluralsight – Dependency Injection tutorials | C 3 **2** 1 0 | | Pluralsight – Factory Pattern | C 3 **2** 1 0 | | [C# @ tutorials teacher](https://www.tutorialsteacher.com/csharp/csharp-tutorials) – Like W3 schools | C 3 **2** 1 0 | | Add your own resource(s): | C 3 2 1 0 | |
| SQL | |  |  | | --- | --- | | Resource | Priority | | [Learn SQL](https://www.w3schools.com/sql/default.asp) Tutorial at w3schools | C 3 2 1 0 | | [SQL Tutorial](https://www.tutorialspoint.com/sql/index.htm) at tutorialspoint | C 3 2 1 0 | | Add your own resource(s): | C 3 2 1 0 | |
| Visual Studio | |  |  | | --- | --- | | Resource | Priority | | [Visual Studio videos](https://visualstudio.microsoft.com/vs/getting-started/) from Microsoft | C 3 2 1 0 | | [Visual Studio documentation](https://docs.microsoft.com/en-us/visualstudio/windows/?view=vs-2019) from Microsoft | C 3 2 1 0 | | Add your own resource(s): | C 3 2 1 0 | |
| Object- oriented programming/ MVC/ Interfaces/ unit testing | |  |  | | --- | --- | | Resource | Priority | | [C# OOP Tutorial](https://www.w3schools.com/cs/cs_oop.asp) from w3schools | C 3 2 1 0 | | [MVC Tutorial](https://docs.microsoft.com/en-us/aspnet/core/tutorials/first-mvc-app/start-mvc?view=aspnetcore-5.0&tabs=visual-studio) from Microsoft | C 3 2 1 0 | | Short [Interface Example](https://www.tutorialspoint.com/csharp/csharp_interfaces.htm) from tutorialspoint | C 3 2 1 0 | | [C# Unit Test Tutorial](https://docs.microsoft.com/en-us/visualstudio/test/walkthrough-creating-and-running-unit-tests-for-managed-code?view=vs-2019) from Microsoft | C 3 2 1 0 | | Add your own resource(s): | C 3 2 1 0 | |
| NodeJS/  Express/  npm | |  |  | | --- | --- | | Resource | Priority | | [NodeJS Handbook](https://flaviocopes.nyc3.digitaloceanspaces.com/node-handbook/node-handbook.pdf) by Flavio Copes | C 3 2 1 0 | | [Express Handbook](https://flaviocopes.nyc3.digitaloceanspaces.com/express-handbook/express-handbook.pdf) by Flavio Copes | C 3 2 1 0 | | npm/NodeJS/Express tutorials as part of the [APIs and Microservices](https://www.freecodecamp.org/learn/apis-and-microservices/) course at freecodecamp | C 3 2 1 0 | | Add your own resource(s): | C 3 2 1 0 | |
| Add your own tool | |  |  | | --- | --- | | Resource | Priority | | Add your own resource(s): | C 3 2 1 0 | |

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| **Training resources on developer tools *NOT covered in the Transition Academy workshops but used at Nelnet*** | |
| Priority key: | C=Completed!  3=High (work through it ASAP)  2=Medium (complete it when I have some time)  1=Low (scan and be aware of it)  0=Skip it |
| **Tool** | **Select training resources** |
| Add your own tool | The following tools were identified by previous NeDL participants who work at Nelnet as possible tools to learn. Review the tools with your mentors and others on your team to determine if you should add them to your development plan.   * **Deployments:** Github Actions * **Testing (mostly Unit vs. Integration):** Jest, Cypress/Gherkin * **Microservices, Containers, and Images:** Moleculer, Docker, Datadog, JFrog Artifractory  |  |  | | --- | --- | | Resource | Priority | | Add your own resource(s): | C 3 2 1 0 | |