

Connect - Full Stack Web Developer Syllabus



Contact Info

While going through the program, if you have questions about anything, you can reach us at . For help from Udacity Mentors and your peers visit the Udacity Classroom.

Nanodegree Program Info

Version: 2.0.0

Length of Program: 107 Days*

** This is a self-paced program and the length is an estimation of total hours the average student may take to complete all required coursework, including lecture and project time. Actual hours may vary.*

Part 1: Welcome to the Program!

Welcome to the Full Stack Web Developer Nanodegree program. This is your first step on your journey to become a Full Stack Developer. Learn what this program is all about as well as how to find support along your learning journey.

Part 2: Developer's Tools

Brush up your knowledge of essential developers' tools such as the Unix shell, Git, and Github; then apply your skills to investigate HTTP, the Web's fundamental protocol.

Part 3: Databases with SQL and Python

Master SQL databases and build multi-user web applications using the Flask framework, SQLAlchemy, and authentication providers such as Google and Facebook.

Project: Project: Logs Analysis

In this project, you'll practice your SQL skills by building a reporting tool that summarizes data from a large database.

Supporting Lessons

Lesson	Summary
Data and Tables	Learn the principles behind relational data organization: tables, queries, aggregations, keys, and joins.
Elements of SQL	Start learning SQL by using the select and insert statements to read and write data in database tables.
Python DB-API	Learn the Python database API, and apply your knowledge to fix common bugs that arise in database-backed web services.
Deeper Into SQL	Create your own database tables using normalized table design, using keys to declare relationships between tables; then apply these relationships to draw conclusions from data.

Part 4: Servers, Authorization, and CRUD

Learn the CRUD pattern (Create, Read, Update, Delete) and how it relates to RESTful architectures and to the operations of a database-backed web service. Learn the difference between authentication and authorization and some best practices in developing a login system.

Project: Improve Your LinkedIn Profile

Find your next job or connect with industry peers on LinkedIn. Ensure your profile attracts relevant leads that will grow your professional network.

Project: Optimize Your GitHub Profile

Other professionals are collaborating on GitHub and growing their network. Submit your profile to ensure your profile is on par with leaders in your field.

Project: Project: Item Catalog

You will develop an application that provides a list of items within a variety of categories as well as provide a user registration and authentication system.

Part 5: Deploying to Linux Servers

You will take a baseline installation of a Linux distribution on a virtual machine and prepare it to host your

web applications, to include installing updates, securing it from a number of attack vectors, and installing and configuring web and database servers.

Project: Project: Linux Server Configuration

You will take a baseline installation of a Linux distribution on a virtual machine and prepare it to host your web applications.

Supporting Lessons

Lesson	Summary
Intro to Linux	Gain an understanding of the Linux operating system and how it differs from other operating systems you may have experienced in the past.
Linux Security	Dive deep into Linux Security to ensure your service remains stable and free from attackers.
Web Application Servers	Install all of the required software to turn your Linux server into a full-fledged web application server and host your very own application!

Part 6: Congrats! What's Next?

Great work finishing the program! Here's some advice on next steps in your programming journey.



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