winc academy

Certificate Supplement
Syllabus Completion Record

Full-Stack Developer



Program: Full-Stack Developer	Study Load: Avg. 570 hours	Issuer: Winc Academy
Level indication: Intermediate / HBO	Language: English	Status ✓ Completed

Overview

This supplement provides additional context for the Full-Stack Development certificate issued by Winc Academy. It summarizes the syllabus, the completed modules, the practical assignments and the capabilities demonstrated by the certificate holder.

Completion statement

The certificate holder successfully completed the practice-based Full-Stack Development program. Through hands-on assignments and projects, the certificate holder demonstrated the ability to build responsive and interactive front-end applications, develop RESTful back-end APIs, work with databases, connect front-end and back-end systems and apply professional development workflows using HTML, CSS, JavaScript, React, Node.js, Express, SQL, Git/GitHub, Postman and related tools.

Completed capabilities

Build semantic web pages with HTML	✓ Completed
Style and structure web pages with CSS	✓ Completed
Create responsive layouts for different screen sizes	✓ Completed
Apply basic design and accessibility principles	✓ Completed
Add interactivity with JavaScript	✓ Completed
Manipulate the DOM based on user input and application state	✓ Completed
Retrieve, send and display data through APIs	✓ Completed

Build component-based applications with React	✓ Completed
Work with routing, hooks, context and state management in React applications	✓ Completed
Set up a professional development environment with VS Code, Git, GitHub and npm	✓ Completed
Understand the role of back-end systems, APIs and databases in web applications	✓ Completed
Build RESTful APIs using Node.js and Express	✓ Completed
Design, query and manage databases using SQL	✓ Completed
Apply responsible AI tools to improve productivity and workflows	✓ Completed

Completed syllabus

Module	Study load	Topics completed	Practical assignment completed	Status
Start Here: Introduction to Full-Stack	5 hrs	Course introduction; overview of the Full-Stack Development program; introduction to front-end, back-end and full-stack workflows.	Completed the course introduction and prepared for the full-stack learning path.	✓ Completed
AI Basics	5 hrs	Introduction to AI; using AI for work productivity; responsible use of AI tools in professional workflows.	Applied AI tools to improve productivity and support development-related tasks.	✓ Completed
HTML Basics	21 hrs	HTML foundations; document structure; elements, tags and attributes; links, paths and images; semantic HTML; forms and formatting.	Built a simple website using HTML module content.	✓ Completed
CSS Basics	23 hrs	CSS syntax and rules; selectors and identifiers; styling HTML elements; box model; developer tools; inheritance and declaration order.	Added attractive styling to a basic HTML page.	✓ Completed
JavaScript Basics	68 hrs	JavaScript fundamentals; programming concepts; variables, numbers and text; user input; data structures; loops; conditional statements; arrays; debugging; basic objects and functions.	Built the Winc Dating App to collect user input and create matches.	✓ Completed
CSS Advanced	64 hrs	Advanced HTML and CSS; Flexbox; Grid; responsive design; accessibility practices; CSS compatibility; layouts for mobile, tablet and desktop.	Created a fully responsive web page using advanced CSS techniques.	✓ Completed
Design and Accessibility	11 hrs	Basic web design principles; user-friendly website design; design tools; CRAP principles; color combinations; accessibility in the design process.	Designed a user-friendly and accessible web page.	✓ Completed

Module	Study load	Topics completed	Practical assignment completed	Status
JavaScript Functions	16 hrs	Reusable functions; parameters and arguments; function outputs; naming functions clearly; best practices for maintainable code.	Wrote a set of functions to process basic user data.	✓ **Completed**
JavaScript Advanced	48 hrs	Advanced JavaScript concepts; spread operator; mutable and immutable operations; pure functions; array methods; object methods; comparing arrays and objects; destructuring.	Built the Cake Searcher application for searching and managing recipes.	✓ **Completed**
Professional Coding Setup	45 hrs	Professional development tools; VS Code configuration; version control with Git and GitHub; npm; organizing code projects like a professional developer.	Set up a functioning development environment and managed a project with version control.	✓ **Completed**
JavaScript in the Browser	20 hrs	Connecting JavaScript, HTML and CSS; importing JavaScript files in HTML; using JavaScript in the browser; manipulating HTML elements; working with browser events.	Created an interactive web page with dynamic browser functionality.	✓ **Completed**
Talking to the Backend	18 hrs	Front-end and back-end communication; using Postman; working with APIs; retrieving, writing and storing data through server communication.	Built an application that retrieves data from an external API and displays it on a web page.	✓ **Completed**
React Fundamentals	50 hrs	React fundamentals; setting up a React project; React DevTools; VS Code configuration for React; building basic React web applications.	Built the Winc Recipe App, allowing users to search for recipes based on diet, health labels or recipe name.	✓ **Completed**
React Advanced	50 hrs	Advanced React topics; components; context; hooks; state management; API calls in React; routing; building more complex and scalable React applications.	Built the Winc Event App with event listing, adding, editing, deleting and detail pages.	✓ **Completed**
Introduction to Back-End Developing	5 hrs	Introduction to back-end development; understanding APIs and requests; understanding the role of databases in web applications.	Explored the role of back-end systems, APIs and databases in full-stack applications.	✓ **Completed**
Node.js and Express	34 hrs	Server-side programming with Node.js and Express; RESTful APIs; routes; multiple routers; middleware; logging; error handling; parsing; basic authentication; debugging.	Developed a RESTful API with route management, middleware and error handling.	✓ **Completed**
Databases & SQL for Back-End Development	15 hrs	Database fundamentals; database design; querying and managing databases; SQL; connecting databases to JavaScript applications; data retrieval and editing.	Practiced designing, querying and managing databases for data-driven applications.	✓ **Completed**
Object Relational Mapping	17 hrs	ORM concepts; database entities and programming objects; Prisma; data modelling; queries; integrating Prisma in an Express API or application.	Implemented Prisma in a database-driven API/application to streamline data access and management.	✓ **Completed**
Testing	11 hrs	Quality assurance; writing effective test cases; unit testing; API testing; Test Driven Development; improving software reliability.	Created unit tests and API tests to validate application functionality.	✓ **Completed**
Back-End Final Project	32 hrs	Combining Node.js, Express, databases and Prisma; RESTful API development; route management; middleware; authentication; error handling; debugging.	Completed a Booking API as a final back-end project.	✓ **Completed**