

## Workshop Overview for Attendees

Overview	
Title	Alma Webhooks and APIs in Node.js
Description	Alma webhooks are a powerful tool that can help you develop applications and patch workflows while saving on API calls. This workshop will cover the set-up of webhooks in Alma, and the creation of a Node.js server to catch incoming data. Using Alma APIs, we will then respond to the data and create an application to provide patrons with more information about the status of their account. In the process, we'll cover Javascript in a server-side environment, look at the data returned by all seven Alma webhooks, and talk about how other institutions are using webhooks.
Presenter(s)	Liam Toohey
Target audience	Beginner/Intermediate
Prerequisites	
Skills <i>Example: Basic Python programming</i>	Basic Javascript programming, including a functional understanding of the following: <ul style="list-style-type: none"><li>• Conditionals, loops, and iterables</li><li>• Native data types, including integers, strings, arrays, and objects</li><li>• Variable declaration</li><li>• User-defined functions</li></ul> Basic understanding of HTTP requests Basic understanding of JSON
Technology <i>Example: Laptop running Primo Dev environment</i>	Laptop with Node.js, Git, NPM, and Ngrok installed. (These should work on any OS, but I'll be using Windows 10.) A development IDE of your choosing (I'll be using VS Code).
Production environment required?	Not required. But the use of an Alma production environment, including the roles required to create Integration Profiles and check items in and out, will allow for a more "real-world" experience.
Learning Outcomes	

Learning outcome 1	Learn how to set-up Webhooks in Alma and process the incoming data from them.
Learning outcome 2	Learn how to make API calls to Alma using Javascript.
Learning outcome 3	Learn how to write a basic web server in Node.js using Express.
<b>Preparatory Materials</b>	
<p>List any preparatory materials that attendees can or should review before the workshop:</p> <p>You'll need a functional understanding of basic Javascript concepts before the workshop. If you'd like to learn or brush up on these skills, overview courses from LinkedIn Learning, Udemy, and Codecademy -- particularly those focused on Javascript specifically -- will give you what you need.</p> <p>The workshop will also cover intermediate Javascript concepts including:</p> <ul style="list-style-type: none"> <li>• Array methods like map and filter</li> <li>• Asynchronous requests using Promises and async/await</li> <li>• Destructuring objects</li> <li>• ES6 syntax like const/let and arrow functions</li> <li>• Javascript in a server-side environment (Node.js)</li> </ul> <p>You don't need an understanding of these prior to the workshop, but you're certainly welcome to learn more about them beforehand. Intermediate courses -- or lengthier introductory courses -- made after 2017 should cover them.</p>	