

3-Month Learning Roadmap for Microsoft CRM + Azure Integration

Overview:

This roadmap is tailored for developers with Power Pages experience, focusing on backend development, plugin customization, Azure integration, and API management.

Month 1: Plugin Development + Azure Fundamentals

Week 1-2: Plugins with C#

- Understand plugin architecture and pipeline
- Register plugins using Plugin Registration Tool (PRT)
- Use C# to create and debug plugins
- Mini project: Validate email or create task on record save

Week 3-4: Azure Fundamentals

- Learn Azure resources, App Services, and Storage
- Set up and deploy a web app
- Mini project: Create and access Azure Storage

Month 2: Azure Functions + CRM Integration

Week 1-2: Azure Functions

- Learn HTTP and Timer triggers
- Develop locally and deploy
- Mini project: Log data or send email via Azure Function

Week 3-4: CRM + Azure Integration

- Call Azure Function from plugin using HttpClient
- Use Power Automate for no-code integration
- Project: Integrate CRM record creation with Azure Function call

Month 3: API Management + Capstone

Week 1-2: Azure API Management

- Import and expose Azure Functions
- Secure APIs with keys and policies

- Monitor usage with APIM analytics
- Project: Secure your function API via APIM

Week 3-4: Capstone Project

Build a full-stack CRM + Azure app:

- Power Pages form submits feedback
- Plugin calls Azure Function
- Azure Function saves to Blob and sends an email
- API exposed via API Management
- Add monitoring and security (API keys/OAuth)