



4 Courses

JavaScript Programming
Essentials

Developing Front-End Apps
with React

Developing Back-End Apps
with Node.js and Express

Node.js & MongoDB:
Developing Back-end
Database Applications



Sep 3, 2025

Muhammad Ismail

has successfully completed the online, non-credit Specialization

JavaScript Programming with React, Node & MongoDB

Holders of this certificate showed their ability to build interactive front-end JavaScript applications using React components. They demonstrated competency with Node.js by writing back-end applications that communicate with other services via RESTful APIs using the Express framework. They've shown they can implement asynchronous programming, and callback functions that use promises and can connect their Node application with a MongoDB. They understand best practices such as optimization and scaling techniques.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Richa

Richa Arora
Full Stack Web
Developer (MERN &
MEVN) and Subject
matter expert

Sachin

Sachin Jambur

Rav Ahuja

Rav Ahuja
Global Program
Director
IBM Skills Network

Upkar

Upkar Liddar
Senior Software
Engineer
IBM

Ramanujam Srinivasan

Ramanujam Srinivasan
Chief Architect

Verify this certificate at:

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