



12 Courses

Introduction to Cloud Computing

Introduction to Web Development with HTML, CSS, JavaScript

Getting Started with Git and GitHub

Developing Front-End Apps with React

Developing Back-End Apps with Node.js and Express

Python for Data Science, AI & Development

Developing AI Applications with Python and Flask

Django Application Development with SQL and Databases

Introduction to Containers w/ Docker, Kubernetes & OpenShift

Application Development using Microservices and Serverless

Full Stack Application Development Capstone Project

Full Stack Software Developer Assessment



Feb 23, 2024

**Al sadick ISMAIL ALTOUM**

has successfully completed the online, non-credit Professional Certificate

# IBM Full Stack Software Developer

The earner of this Professional Certificate has completed 10 courses on various Application Development and Cloud technologies and is now equipped with the skills and know how to undertake challenges of Developing Cloud Native Applications. The Certificate earner has hands-on working knowledge with HTML, CSS, JavaScript, GitHub, Node.js, React, Cloud Native practices, DevOps, CI/CD, Containers, Docker, Kubernetes, OpenShift, Python programming, Databases, SQL, NoSQL, Django ORM, Bootstrap, Application Security, Microservices, Serverless computing, and more. The learner has also deployed several applications on cloud, completed a capstone project, and delivered a Software as a Service (SaaS) solution using Cloud Native methodologies.

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.

Rav Ahuja  
AI & Data Science  
Program Director  
IBM Skills Network

Verify this certificate at:

<https://coursera.org/verify/profession/al-cert/3GKTQ5P8LXJ2>