



5 Courses

Programming Foundations with  
JavaScript, HTML and CSS

Java Programming: Solving  
Problems with Software

Java Programming: Arrays, Lists,  
and Structured Data

Java Programming: Principles of  
Software Design

Java Programming: Build a  
Recommendation System



11/29/2018

**MD AL MAMUNUR RASHID**

has successfully completed the online, non-credit Specialization

# Java Programming and Software Engineering Fundamentals

This Specialization covers the fundamentals of software development, focusing on a beginner-level introduction to rigorous problem-solving approaches while still embracing and extending traditional methods of computer science and software engineering. You'll explore foundational concepts such as algorithm development, data representation, and debugging, using common tools such as HTML/CSS, Javascript, and Java. In the final Capstone Project, you'll apply the skills you learned by creating a working recommender system that can help users find and choose items, such as films, books, or restaurants. Google has contributed real-world projects and the involvement of its engineers as guest lecturers to these courses.

Andrew D. Hilton  
Associate Professor of  
the Practice  
Electrical and Computer  
Engineering

Robert Duvall  
Lecturer  
Computer Science

Susan H. Rodger  
Professor of the Practice  
Computer Science

Owen Astrachan  
Professor of the Practice  
Computer Science

Verify this certificate at:  
[coursera.org/verify/specialization/QF2ARS8RJGQN](https://coursera.org/verify/specialization/QF2ARS8RJGQN)