



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**



Mar 11, 2021

Lizheng Zhao

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.

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.

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/XBHNRKYM3P9X