



SUN CERTIFICATION

Mark Brodski

HAS FULFILLED ALL REQUIREMENTS AS A
SUN CERTIFIED PROGRAMMER

FOR THE JAVA™ 2 PLATFORM

On September 20, 2001

A handwritten signature in black ink, appearing to be "SM", positioned above a horizontal line.

Scott McNealy, President, Chairman, and CEO of Sun Microsystems, Inc.

A handwritten signature in black ink, appearing to be "Bill Richardson", positioned above a horizontal line.

Bill Richardson, Vice President and General Manager of Sun Educational Services

