

SUN CERTIFICATION

Janolof Elander Jansson

HAS FULFILLED ALL REQUIREMENTS AS A
SUN CERTIFIED PROGRAMMER

FOR THE JAVA™ 2 PLATFORM

On June 15, 2000

A handwritten signature in black ink, appearing to be "Scott McNealy".

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

A handwritten signature in black ink, appearing to be "Bill Richardson".

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

