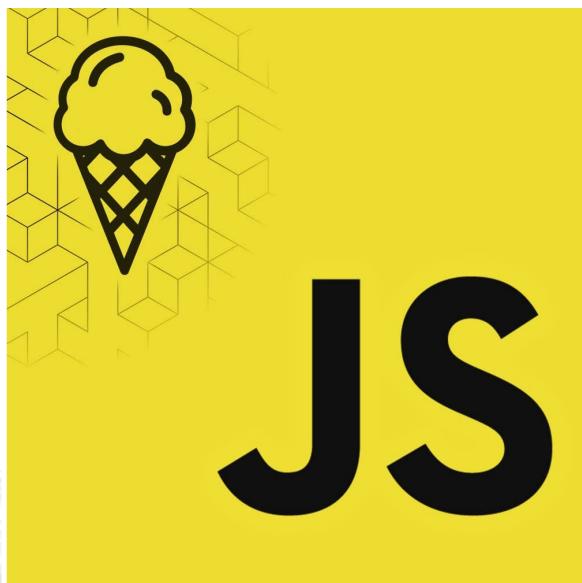




CERTIFICATE OF COMPLETION

Jesse Juhani Pernilä

has successfully completed



Completed: Dec 14, 2025

JavaScript Design Patterns for Web Apps

4 hours, 24 minutes



Maximiliano Firtman
Teacher
Frontend Masters

A handwritten signature in black ink that reads "M. Grabanski".

Marc Grabanski
CEO Frontend Masters