



CERTIFICATE *of* ACHIEVEMENT



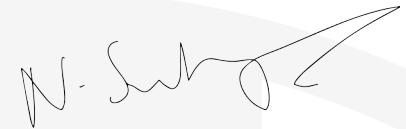
This is to certify that

Arne Saupe

successfully completed and received a passing grade in

DEV201x: Introduction to TypeScript

a course of study offered by Microsoft, an online learning initiative of Microsoft through edX.



Satya Nadella

Chief Executive Officer
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Anders Hejlsberg

Technical Fellow
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VERIFIED CERTIFICATE
Issued May 18, 2015

Verify the authenticity of this certificate at
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