

ABSCHLUSSZEUGNIS

Torsten Brieskorn
geboren am 11.07.1970
Studien-Nummer 1142133



Torsten Brieskorn hat an dem Fernlehrgang

Python für Data Science und Machine Learning

- zugelassen von der Staatlichen Zentralstelle für Fernunterricht (Nr. 7408521) -

vom 08.05.2025 bis 28.08.2025 teilgenommen und die Arbeiten zu folgenden Fachgebieten eingereicht:

- Installation von Anaconda und erste Schritte mit Python
- Fortgeschrittene Programmierung mit Python
- Objektorientierung mit Python
- Listen und Datenstrukturen in Python
- Ausnahmebehandlung, Dateiverarbeitung und Modularisierung
- Numerisches Python mit NumPy
- Datenvisualisierung mit matplotlib
- Datenverarbeitung mit pandas
- Statistik und Wahrscheinlichkeitsrechnungen mit Python
- Big Data und Data Science
- Künstliche Intelligenz
- Machine Learning mit Python

Die erzielten Leistungen wurden mit der

Gesamtnote

----- **sehr gut** -----

bewertet.

Darmstadt, den 4. September 2025

Tobias Domke
Geschäftsführer

Christian Rose
Geschäftsführer



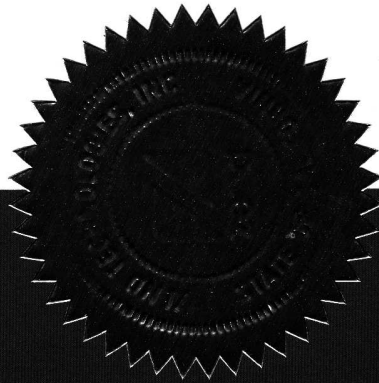
Torsten Brieskorn

Has successfully completed the test requirements
and demonstrated the knowledge and skills
to be recognized as a

Zend Framework 2 Certified Architect

Candidate ID - ZEND020890

Registration ID - 280523267



Zb
Zeev Suraski
Co-Founder

Andi
Andi Gutmans
Co-Founder



Torsten Brieskorn

Has successfully completed the test requirements
and demonstrated the knowledge and skills
to be recognized as a

Zend Certified Engineer
PHP 5.3



Candidate ID - ZEND020890

Registration ID - 251705110

Zb
Zeev Suraski
Co-Founder

Andi
Andi Gutmans
Co-Founder

Zend Technologies, Inc.



THIS CERTIFIES THAT
Torsten Brieskorn

IS RECOGNIZED BY
THE ORACLE CERTIFIED PROFESSIONAL PROGRAM AS AN
Oracle Forms Developer Certified Professional

July 9, 2010

Date
John L. Hall
Senior Vice President, Oracle Corporation



ORACLE®

Certified Associate

THIS CERTIFIES THAT

Torsten Brieskorn

IS RECOGNIZED BY

THE ORACLE CERTIFICATION PROGRAM AS AN

Oracle PL/SQL Developer Certified Associate

May 21, 2010

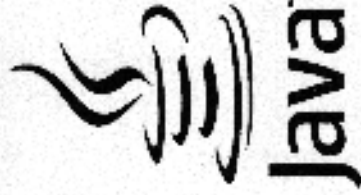
Date

John L. Hall

Senior Vice President, Oracle Corporation



Sun™ Certification



Torsten Brieskorn

HAS FULFILLED ALL REQUIREMENTS AS A

SUN CERTIFIED WEB COMPONENT DEVELOPER

FOR THE JAVA™ PLATFORM, Enterprise Edition 5

On March 18, 2010

Jonathan I. Schwartz, Chief Executive Officer and President, Sun Microsystems, Inc.

Karie Willyerd, Vice President and Chief Learning Officer, Sun Educational Services

Novell® Certified Linux AdministratorSM



Certified
LINUX
ADMINISTRATOR

Novell®

Torsten Brieskorn
SUSE Linux Enterprise 11

Novell, on authorization from the President and CEO, hereby recognizes you
as a Novell Certified Linux Administrator for successfully completing the certification requirements on

February 12, 2010

This certificate has been granted as evidence thereof.

Ron Hovsepian
President and CEO

Mary Jo Swenson
Executive Director, Novell Technical Training

To verify this certification, this certificate holder may publish their credentials. Please contact edcustomer@novell.com for questions.

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Sun™ Certification



Torsten Brieskorn

HAS FULFILLED ALL REQUIREMENTS AS A
SUN CERTIFIED PROGRAMMER
FOR THE JAVA™ PLATFORM, STANDARD EDITION 6

On December 21, 2009

Jonathan I. Schwartz, Chief Executive Officer and President, Sun Microsystems, Inc.

Karie Willyerd, Vice President and Chief Learning Officer, Sun Educational Services

Stable. Innovative. Growing.



Torsten Brieskorn

*has fulfilled the qualifications and achieved all requirements
of the Institute's program*

LPIC-1 Certification

*and is entitled to all honours and privileges associated with this
achievement.*

Issued at Toronto, Ontario, Canada

On the 25th day of November 2008


President and CEO

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