

Sun™ Certification



Suwigrom Adulrattananuwat

HAS FULFILLED ALL REQUIREMENTS AS A
SUN CERTIFIED PROGRAMMER
FOR THE JAVA™ 2 PLATFORM, STANDARD EDITION 5.0
On March 23, 2007



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

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

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SUN-000001

Sun™ Certification



Suwigrom Adulrattananuwat

HAS FULFILLED ALL REQUIREMENTS AS A
SUN CERTIFIED WEB COMPONENT DEVELOPER
FOR THE JAVA™ 2, Enterprise Edition 1.4
On July 31, 2007



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

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

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SUN-000002



School of Information Technology
King Mongkut's University of Technology Thonburi
in partnership with
IBM Thailand Company Limited



is pleased to certify that

Suwigrom Adulrattananuwat

has successfully completed the course

Java Programming

March 23, 2007

Dean of School of Information Technology
King Mongkut's University of Technology Thonburi

IT Education Services Manager
IBM Global Services, IBM Thailand Company Limited

IBM-000001



School of Information Technology
King Mongkut's University of Technology Thonburi
in partnership with
IBM Thailand Company Limited



is pleased to certify that

Suwigrom Adulrattananuwat

has successfully completed the course

Java-Server Side Programming

September 20, 2007

Dean of School of Information Technology
King Mongkut's University of Technology Thonburi


IT Education Services Manager
IBM Global Services, IBM Thailand Company Limited

JSP000001

VERIFIED

CERTIFICATE of ACHIEVEMENT

HarvardX


Rafael Inbarry
Professor of Biostatistics
Harvard T.H. Chan School of Public Health


This is to certify that

SUWIGROM ADULRATTANANUWAT

successfully completed and received a passing grade in

PH125.1x: Data Science: R Basics

a course of study offered by HarvardX, an online learning initiative of Harvard University.


 VERIFIED CERTIFICATE
Issued January 4, 2020

VALID CERTIFICATE ID
e6596c765264376671e0c9f320f4227

VERIFIED

CERTIFICATE of ACHIEVEMENT

HarvardX


Rafael Inbarry
Professor of Biostatistics
Harvard T.H. Chan School of Public Health


This is to certify that

SUWIGROM ADULRATTANANUWAT

successfully completed and received a passing grade in

PH125.2x: Data Science: Visualization

a course of study offered by HarvardX, an online learning initiative of Harvard University.


 VERIFIED CERTIFICATE
Issued January 4, 2020

VALID CERTIFICATE ID
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VERIFIED

CERTIFICATE of ACHIEVEMENT

HarvardX


Rafael Inbarry
Professor of Biostatistics
Harvard T.H. Chan School of Public Health


This is to certify that

SUWIGROM ADULRATTANANUWAT

successfully completed and received a passing grade in

PH125.3x: Data Science: Probability

a course of study offered by HarvardX, an online learning initiative of Harvard University.


 VERIFIED CERTIFICATE
Issued January 5, 2020

VALID CERTIFICATE ID
03a44a69f9414582a169399693c544

VERIFIED

CERTIFICATE of ACHIEVEMENT

HarvardX


Rafael Inbarry
Professor of Biostatistics
Harvard T.H. Chan School of Public Health


This is to certify that

SUWIGROM ADULRATTANANUWAT

successfully completed and received a passing grade in

PH125.4x: Data Science: Inference and Modeling

a course of study offered by HarvardX, an online learning initiative of Harvard University.


 VERIFIED CERTIFICATE
Issued February 2, 2020

VALID CERTIFICATE ID
9050b7c75942434c0192a0495959332

VERIFIED

CERTIFICATE of ACHIEVEMENT

HarvardX


Rafael Inbarry
Professor of Biostatistics
Harvard T.H. Chan School of Public Health


This is to certify that

SUWIGROM ADULRATTANANUWAT

successfully completed and received a passing grade in

PH125.5x: Data Science: Productivity Tools

a course of study offered by HarvardX, an online learning initiative of Harvard University.


 VERIFIED CERTIFICATE
Issued January 6, 2020

VALID CERTIFICATE ID
f560f759a45438a079a2a321c3558d1

VERIFIED

CERTIFICATE of ACHIEVEMENT

HarvardX


Rafael Inbarry
Professor of Biostatistics
Harvard T.H. Chan School of Public Health


This is to certify that

SUWIGROM ADULRATTANANUWAT

successfully completed and received a passing grade in

PH125.6x: Data Science: Wrangling

a course of study offered by HarvardX, an online learning initiative of Harvard University.


 VERIFIED CERTIFICATE
Issued February 6, 2020

VALID CERTIFICATE ID
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VERIFIED

CERTIFICATE of ACHIEVEMENT

HarvardX


Rafael Inbarry
Professor of Biostatistics
Harvard T.H. Chan School of Public Health


This is to certify that

SUWIGROM ADULRATTANANUWAT

successfully completed and received a passing grade in

PH125.7x: Data Science: Linear Regression

a course of study offered by HarvardX, an online learning initiative of Harvard University.


 VERIFIED CERTIFICATE
Issued February 6, 2020

VALID CERTIFICATE ID
73019206aef1464883b0c0a03790403c

VERIFIED

CERTIFICATE of ACHIEVEMENT

HarvardX


Rafael Inbarry
Professor of Biostatistics
Harvard T.H. Chan School of Public Health


This is to certify that

SUWIGROM ADULRATTANANUWAT

successfully completed and received a passing grade in

PH125.8x: Data Science: Machine Learning

a course of study offered by HarvardX, an online learning initiative of Harvard University.


 VERIFIED CERTIFICATE
Issued February 8, 2020

VALID CERTIFICATE ID
f5c03a6e6d5d59363a7c0b10c0f77

VERIFIED

CERTIFICATE of ACHIEVEMENT

HarvardX


Rafael Inbarry
Professor of Biostatistics
Harvard T.H. Chan School of Public Health


This is to certify that

SUWIGROM ADULRATTANANUWAT

successfully completed and received a passing grade in

PH125.9x: Data Science: Capstone

a course of study offered by HarvardX, an online learning initiative of Harvard University.

 VERIFIED CERTIFICATE
Issued April 21, 2020

VALID CERTIFICATE ID
07907541604a2a0b35c1452f9a17



This is to certify that

SUWIGROM ADULRATTANANUWAT

successfully passed the examination for

Applications & Use Cases Master Certification

The Master level is the second level after Professional and stands for high proficiency in the topic. Some of the topics tested at this level are:

Running Processes, Deploying Models, Model Management and Web Apps.



This certificate can be verified using the open badge which was issued to the certificate holder.
The open badge can be uploaded and tested via this redirect: www.rapidminer.com/badgecheck

Knut Makowski
(Head of Education)

Peter Lee
(CEO RapidMiner)



This is to certify that

SUWIGROM ADULRATTANANUWAT

successfully passed the examination for

Applications & Use Cases Professional Certification

The Professional level is the first of two certification levels and is rewarded for solid experience in the topic. Some of the topics tested at this level are:

Introduction to Machine Learning and Data Science, CRISP-DM and Variants, Use Cases for Machine Learning, Visualization and What to do with Models.



This certificate can be verified using the open badge which was issued to the certificate holder.
The open badge can be uploaded and tested via this redirect: www.rapidminer.com/badgecheck

Knut Makowski
(Head of Education)

Peter Lee
(CEO RapidMiner)



This is to certify that

SUWIGROM ADULRATTANANUWAT

successfully passed the examination for

Platform Administration Master Certification

The Master level stands for high proficiency in the topic. Some of the topics tested at this level are:

Platform Overview, RapidMiner Studio Installation, RapidMiner Server Administration, RapidMiner Radoop, RapidMiner Real-Time Scoring, and RapidMiner Marketplaces.



This certificate can be verified using the open badge which was issued to the certificate holder.
The open badge can be uploaded and tested via this redirect: www.rapidminer.com/badgecheck

Knut Makowski
(Head of Education)

Peter Lee
(CEO RapidMiner)



This is to certify that

SUWIGROM ADULRATTANANUWAT

successfully passed the examination for

Data Engineering Master Certification

The Master level is the second level after Professional and stands for high proficiency in the topic. Some of the topics tested at this level are:

Loops and Branches, Advanced Text Processing, Exception Handling, Logging, Data Cleansing, Regular Expressions, Macros, Web APIs, and Scripting.



This certificate can be verified using the open badge which was issued to the certificate holder.
The open badge can be uploaded and tested via this redirect: www.rapidminer.com/badgecheck

Knut Makowski
(Head of Education)

Peter Lee
(CEO RapidMiner)



This is to certify that

SUWIGROM ADULRATTANANUWAT

successfully passed the examination for

Data Engineering Professional Certification

The Professional level is the first of two certification levels and is rewarded for solid experience in the topic. Some of the topics tested at this level are:

Data Access, Basic Transformations, Working with Multiple Data Sets, Pivot Tables, Routines and Simple Text Processing.



This certificate can be verified using the open badge which was issued to the certificate holder.
The open badge can be uploaded and tested via this redirect: www.rapidminer.com/badgecheck

Knut Makowski
(Head of Education)

Peter Lee
(CEO RapidMiner)



This is to certify that

SUWIGROM ADULRATTANANUWAT

successfully passed the examination for

Machine Learning Master Certification

The Master level is the second level after Professional and stands for high proficiency in the topic. Some of the topics tested at this level are:

Complex Predictive Models, Cross Validation and Correct Validation, Parameter Optimization, Model Selection, Feature Engineering, Time Series and Forecasting and Integrating R and Python Models.



This certificate can be verified using the open badge which was issued to the certificate holder.
The open badge can be uploaded and tested via this redirect: www.rapidminer.com/badgecheck

Knut Makowski
(Head of Education)

Peter Lee
(CEO RapidMiner)



This is to certify that

SUWIGROM ADULRATTANANUWAT

successfully passed the examination for

Machine Learning Professional Certification

The Professional level is the first of two certification levels and is rewarded for solid experience in the topic. Some of the topics tested at this level are:

Classification, Regression, Scoring, Hold-out Validation, Correlations, Feature Importance, Clustering and Association Rules.



This certificate can be verified using the open badge which was issued to the certificate holder.
The open badge can be uploaded and tested via this redirect: www.rapidminer.com/badgecheck

Knut Makowski
(Head of Education)

Peter Lee
(CEO RapidMiner)

Neo4j Certified Professional

Presented to:
Suwigrom Adulrattananuwat

Neo4j certifies you as a Neo4j Professional



Test Name: Neo4j Certification
Score: 81.1% (82.7 out of 102)
Certificate Number: 16920974

The certificate holder is recognized by Neo4j GraphAcademy for Professional level knowledge of Neo4j.

Emil Eifrem

Mon 9th Dec 2019
neo4j

PROFESSIONAL CERTIFICATE

HarvardX

This is to certify that

**SUWIGROM
ADULRATTANANUWAT**

successfully completed all courses and received passing grades for a
Professional Certificate in

Data Science

a program offered by HarvardX, in collaboration with edX.



PROFESSIONAL CERTIFICATE
Issued April 2020

VALID CERTIFICATE ID:
R5d0B4df1374182b53a8769f6d5d3f

Rafael Intzany
Rafael Intzany
Professor of
Biostatistics
Harvard T.H. Chan School of Public Health



Certificate of Completion
Suwigrom Adulrattananuwat

Has successfully completed
AWS Hadoop Fundamentals

Maureen Lonergan

Director, Training and Certification

90 minutes
Duration

30 December, 2019
Completion Date



Certificate of Completion
Suwigrom Adulrattananuwat

Has successfully completed
Introduction to Amazon DynamoDB

Maureen Lonergan

Director, Training and Certification

10 minutes
Duration

30 December, 2019
Completion Date



Certificate of Completion
Suwigrom Adulrattananuwat

Has successfully completed
Data Analytics Fundamentals

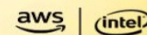
Maureen Lonergan

Director, Training and Certification

3 1/2 hours
Duration

30 December, 2019
Completion Date

AWSOME DAY ONLINE CONFERENCE



CERTIFICATE OF ATTENDANCE

THIS CERTIFICATE IS AWARDED TO
SUWIGROM ADULRATTANANUWAT
ON THE 6 NOVEMBER 2019

Maureen Lonergan

Maureen Lonergan
Director, Training and Certification, AWS