

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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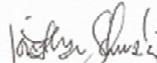
Sun™ Certification

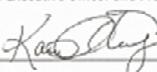


Suwigrom Adulrattananuwat

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.



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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

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



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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

JSP0061 19

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CERTIFICATE of ACHIEVEMENT

HarvardX



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

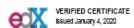
This is to certify that

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.



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e4589078592d378971ec0e1307422

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HarvardX



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

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PH125.2x: Data Science: Visualization

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PH125.4x: Data Science: Inference and Modeling

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PH125.5x: Data Science: Productivity Tools

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PH125.6x: Data Science: Wrangling

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PH125.7x: Data Science: Linear Regression

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

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PH125.8x: Data Science: Machine Learning

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Harvard T.H. Chan School of Public Health

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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.



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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 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 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 Marketplace.



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.



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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.



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Knut Makowski
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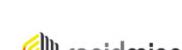


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successfully passed the examination for
Machine Learning Master Certification

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.



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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.



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