

Jose Pereira

Certificate of Completion for

AWS Academy Graduate - Cloud Web Application Builder -
Training Badge

Course hours completed

12 hours

Issued on

01/03/2026

Digital badge

<https://www.credly.com/go/KApMSv8k>



Certificate of Achievement

Jose Luis Pereira Osorio

has completed the following course:

INTRODUCTION TO CYBER SECURITY
THE OPEN UNIVERSITY

This course explored online security and the skills required to protect your digital life. It introduced the fundamentals of cyber security covering a range of topics including information security risk management, network security, cryptography and malware.

8 weeks, 3 hours per week



Dave Hall
University Secretary
The Open University



Accredited by



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This certificate represents proof of learning. It is not a formal qualification, degree, or part of a degree.



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has completed the following course:

INTRODUCTION TO CYBER SECURITY THE OPEN UNIVERSITY

97%
OVERALL
SCORE

We shop online. We work online. We play online. We live online. As our lives increasingly depend on digital services, the need to protect our information from being maliciously disrupted or misused is really important. This online course provides a foundation to understanding online security & protecting your digital life, whether at home or work. Having completed the course, learners will be able to recognise cyber security threats & the steps that can be taken to reduce the chances of these.

STUDY REQUIREMENT

8 weeks, 3 hours per week

LEARNING OUTCOMES

- Explain basic cyber security terminology; have skills for keeping up to date on cyber security issues; and be able to identify information assets.
- Describe basic authentication mechanisms; have skills to improve their password security; and be aware of alternative authentication methods.
- Identify main malware types; awareness of different malware propagation methods; and skills for preventing malware infections.
- Describe cryptography terminology; be able to use cryptography for email; be aware of applications of cryptography.
- Demonstrate understanding of firewalls, virtual private networks and network intrusion detection and prevention technologies.
- Describe legal and regulatory issues relating to cyber security; and understand how to recover from security failures.
- Apply basic risk analysis and management techniques.

SYLLABUS

- Threat landscape: terminology, cyber security threats, keeping up to date
- Authentication: access control, passwords, two-factor authentication
- Malware: types of malware, attack vectors, preventing infection
- Networking and communications: fundamentals, security challenges, standards
- Cryptography: symmetric and asymmetric cryptography, applications
- Network security: firewalls, virtual private networks, intrusion detection / prevention
- When your defences fail: cyber security laws, recovering from attacks
- Managing security risks: risk analysis and management



Certificate of Achievement

Jose Luis Pereira Osorio

has completed the following course:

THE CYBER SECURITY LANDSCAPE
COVENTRY UNIVERSITY

This online course explored how to demonstrate a systematic understanding of relevant knowledge about organisations, their external context and how they are managed; demonstrate an understanding of the changing cyber threat landscape and the developments in cyberspace and appropriate techniques.

2 weeks, 5 hours per week



Anitha Chinnaswamy
Assistant Professor
Coventry University



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- Concepts, problems, and issues related to modern technologies

STUDY REQUIREMENT

2 weeks, 5 hours per week

LEARNING OUTCOMES

- Demonstrate a systematic understanding of relevant knowledge about organisations, their external context and how they are managed
- Demonstrate an understanding of the changing cyber threat landscape and the developments in cyberspace
- Apply knowledge to a range of situations including IT security, finance, accounting, and organisational behaviour, taking account of the inter-relationships of these topics and their interactions with the business and the industry and external environment
- Demonstrate an understanding of appropriate techniques sufficient to allow detailed investigation into relevant cybersecurity management issues

SYLLABUS

- Current and emerging security implications
- Networks and security, loss of the traditional LAN and LAN perimeter
- Consumerisation of corporate technology through apps, tablets and smartphones
- Client-side threats, web-server security, web-applications security
- Operating system security



Certificate of Achievement

Jose Luis Pereira Osorio

has completed the following course:

INTRODUCTION TO UX DESIGN
FUTURELEARN

This online course demonstrated how UX design adds business value, fosters collaborative thinking, drives engagement, and ensures greater business value. It identified a real-world design challenge and worked towards developing a solution utilising popular UX design tools and frameworks.

4 weeks, 3 hours per week



Ian Howell
Managing Director
FutureLearn

 Future
Learn

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Jose Luis Pereira Osorio

has completed the following course:

INTRODUCTION TO UX DESIGN FUTURELEARN

This online course demonstrated the business value of UX design with an end-to-end design process and how one can apply it to address design challenges. It demonstrated how to research users by creating and analysing empathy maps and journey maps. It explained the importance of process-driven ideation in UX design, using activities such as brainstorming and card sorting. It gave opportunities to practise preparing information architecture overviews, develop wireframes, and test prototypes.

STUDY REQUIREMENT

4 weeks, 3 hours per week

LEARNING OUTCOMES

- Develop user personas based on real-world UX design challenges.
- Create journey and empathy maps to understand your users.
- Practice process-driven ideation techniques, including brainstorming and card sorting, and information architecture design.
- Develop a design solution by creating a wireframe as part of the prototyping process.

SYLLABUS

- Defining UX design challenges and developing user personas
- Journey and empathy mapping tools to understand your user
- Process-driven ideation techniques, including brainstorming and card sorting, and information architecture design
- Developing your idea by creating wireframes and prototypes



Certificate of Achievement

Jose Luis Pereira Osorio

has completed the following course:

METHODOLOGIES FOR SERVICE DESIGN
KEIO UNIVERSITY

This online course explored the basic concept of service design and how its methodologies can support business domains and entrepreneurial challenges, with a focus on cases from Japan and around.

4 weeks, 2 hours per week



Chihiro Sato

Senior Assistant Professor of Media Design
Keio University

Keio University



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METHODOLOGIES FOR SERVICE DESIGN **KEIO UNIVERSITY**

This online course explored the basic concept of service design and how its methodologies can support business domains and entrepreneurial challenges, with a focus on cases from Japan and around. The course covered a wide range of ideas that engage with accounting, IT, marketing, and philosophy to identify the market, support your team, and grow your business.

STUDY REQUIREMENT

4 weeks, 2 hours per week

LEARNING OUTCOMES

- Identify what strategies to take on whichever design phase you are at
- Reflect your current expertise and the resources you have available for a service
- Explore what your core competence is and elaborate your ideas for a target market
- Synthesise seven different academic domains and integrating to actually design a service
- Develop soft skills for a smoother collaboration amongst your team and with your stakeholders related to your service

SYLLABUS

- Innovation management
- Management control
- Service exchange and gift economy platform
- Innovation marketing
- Intellectual-property strategy
- Startup financing and strategy
- Service design philosophy



Certificate of Achievement

Jose Luis Pereira Osorio

has completed the following course:

PRODUCT MANAGEMENT ESSENTIALS
FUTURELEARN

This online course provided learners with the skills and tools needed to manage a product through its life cycle in order to meet and exceed consumer demands and expectations within a business context.

4 weeks, 3 hours per week



Ian Howell
Managing Director
FutureLearn

 Future
Learn

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Jose Luis Pereira Osorio

has completed the following course:

PRODUCT MANAGEMENT ESSENTIALS **FUTURELEARN**

This online short course explored why product management is critical to business and how the various stages in the product development lifecycle are applied to drive business value. Topics included market and growth strategies, how to launch a product, and how to effectively use success metrics and customer feedback to measure success and improve products. Learners also gained the practical skills needed to develop a value proposition statement and a product launch plan.

STUDY REQUIREMENT

4 weeks, 3 hours per week

LEARNING OUTCOMES

- Classify product management and its various components as a critical business concept
- Discuss the elements and value of product design and development
- Identify product launch strategies and various marketing funnels to achieve launch goals
- Explain and utilise success metrics for implementing valuable product performance.

SYLLABUS

- Product management and product strategy
- Product design and development
- Product launch
- Product improvement and success metrics



Certificate of Achievement

Jose Luis Pereira Osorio

has completed the following course:

GETTING STARTED WITH GENERATIVE AI PRAGMATIC AI LABS

In this course you gained a solid foundation in generative AI, how it works, and how to apply it to build robust applications.

3 weeks, 5 hours per week



Alfredo Deza

Adjunct Professor at Duke University
Pragmatic AI Labs



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Jose Luis Pereira Osorio

has completed the following course:

GETTING STARTED WITH GENERATIVE AI PRAGMATIC AI LABS

96%

OVERALL
SCORE

This course provided high-level overview of generative AI concepts as well as hands-on labs for exploring and applying different techniques when working with Large Language Models (LLMs) as well as small language models.

STUDY REQUIREMENT

3 weeks, 5 hours per week

LEARNING OUTCOMES

- Apply different prompt engineering techniques for enhancing generative AI output
- Develop Generative AI software solutions.
- Create automation based on powerful generative AI patterns

SYLLABUS

- Learn what generative AI is and how it's evolved from early AI to the large language models used today
- Learn the fundamentals of prompt engineering to interact effectively with generative AI models
- Explore more advanced skills like breaking down tasks, chaining prompts, and other techniques to overcome context limitations
- Explore different types of generative AI applications, including API-based, embedded-model, and multi-model systems
- Learn the fundamentals of building robust applications using techniques like Retrieval Augmented Generation (RAG) to improve context
- Gain hands-on experience testing an application locally and deploying it on the cloud using tools like Azure



Certificate of Achievement

Jose Luis Pereira Osorio

has completed the following course:

MACHINE LEARNING FOR IMAGE DATA

THE UNIVERSITY OF NOTTINGHAM AND UNIVERSITY OF LINCOLN

This course looked at the use of machine learning using image data, and discussed feature extraction, image labelling and pre-processing. We covered both supervised and unsupervised methods, the common tasks of classification, clustering, and regression, and introduced some deep learning concepts.

5 weeks, 3 hours per week



Andrew French
Professor of Computer Science
The University of Nottingham



**University of
Nottingham**
UK | CHINA | MALAYSIA



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THE UNIVERSITY OF NOTTINGHAM AND UNIVERSITY OF LINCOLN

The course looked at the use of machine learning, particularly in the context of plant image data collected experimentally, and discussed feature extraction, labelling, and pre-processing. We covered both supervised and unsupervised methods, the common tasks of classification, clustering, and regression, and ways to train, visualise, and evaluate models using the Python packages Scikit-Learn, Matplotlib and Pandas. Finally, we discussed how deep learning techniques differ from machine learning.

STUDY REQUIREMENT

5 weeks, 3 hours per week

LEARNING OUTCOMES

- Explain what machine learning is, and how it relates to image data
- Perform simple image labelling and pre-processing tasks
- Classify supervised, unsupervised and semi-supervised machine learning techniques
- Code some simple machine learning scripts using Python Scikit-Learn
- Describe some common machine learning tasks, such as clustering, regression, and classification
- Investigate deep learning, and how it differs from machine learning

SYLLABUS

- What is machine learning? Key concepts
- Supervised versus unsupervised learning
- Software tools – Python Scikit-Learn
- Common tasks and terminology

- Data and features
- Feature extraction
- Labelling images
- Image pre-processing
- Common techniques
- Clustering
- Classification
- Regression
- Evaluation, visualisation, and selection
- Tips and tricks
- Good training practice
- Data augmentation
- Common challenges
- Introduction to Deep learning
- Deep learning vs machine learning
- Neural networks
- Some simple tools



Certificate of Achievement

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PRACTICAL MACHINE LEARNING FOR AI: FOUNDATIONAL SKILLS AND EXPERIMENTS
CARDIFF UNIVERSITY

This online course explored the potential of machine learning, what it is, how it works, and why it's crucial in the modern technological landscape.

2 weeks, 3 hours per week



Dev Kant
Cardiff University



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This online course explored the potential of machine learning, what it is, how it works, and why it's crucial in the modern technological landscape. The course offered a an insight into topics such as ethics in AI, data privacy issues, and the societal impacts of machine learning technologies,

STUDY REQUIREMENT

2 weeks, 3 hours per week

LEARNING OUTCOMES

- Describe a fundamental understanding of machine learning
- Identify the fundamental principles underlying common machine learning methods
- Apply the appropriate environment to run machine learning experiments

SYLLABUS

Introduction to machine learning including:

Pipelines,
Approaches,
Ethics and bias,
Development platforms.