



# CERTIFICATE

Awarded to

## Hayk Zakaryan

Who has successfully completed **Specialization** of  
**"Back-End Software Engineering"** pathway program  
from October-November, 2021 that includes the following courses:

Java, Spring Boot, API

Software Architecture

Agile Software Development

Effective Communication and Presentation Skills

Employability Skills

A handwritten signature in black ink, appearing to read "Karine Vardazaryan".

Karine Vardazaryan  
Head of Excellence Center

Yerevan, 10 December 2021



# CERTIFICATE

Awarded to

## Hayk Zakaryan

Who has successfully completed **Foundations** of  
**"Back-End Software Engineering"** pathway program  
from June-October, 2021 that includes the following courses:

Computer Science and Software Engineering Fundamentals  
Frontend Development, HTML, CSS3, JavaScript  
Quality Assurance and Software Testing Fundamentals  
Data Structures and Algorithms  
Design Patterns, Databases  
DevOps Essentials, Computer Networking, Security Concepts



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Karine Vardazaryan  
Head of Excellence Center

Yerevan, 01 October 2021