42 Luxembourg
14, Porte de France
4360 Esch-sur-Alzette

RESULTS FOR ATTILA NEMET

I, the undersigned Serge LINCKELS, Managing Director of 42 Luxembourg located at 14, Porte de France, 4360 Esch-sur-Alzette, LUXEMBOURG, hereby certify that:

Attila Nemet, born on February 12, 1967 in Tirgu Mures (Romania)

obtained the grades detailed below as of February 26, 2026.

This certificate is delivered upon request for all legal intents and purposes and is valid for 6 months from the date of issuance.

Selected in: **March 2025**
Curriculum started on: **June 10, 2025**
Curriculum ended on: **-**

Founded in 2013, 42 is a worldwide network of ICT schools. We are a non-traditional educator offering high-quality and scalable software engineering education to anyone who wants to learn.
It is our mission to prepare the next generation for the jobs of today and tomorrow. We do so using an innovative educational model, which relies on peer-to-peer learning, project-based and hands-on approach to programming.

The progression of the student inside the curriculum is represented by its level, 21 in total.
The current level of the student is: **9.70.**

The 42 curriculum is divided into two halves: the common core and the 42 advanced part. Once students complete the first half (the common core), they have the option to either continue their journey in the 42 advanced part, or conclude their progression and become an alumni at any point during this second part.
The student is **in the Common Core.**
See details below.

DETAILS

Here is a description of each part of the curriculum and the current position of the student:

The Common Core

The common core of the 42 curriculum represents the minimum set of skills to be ready for a first professional experience. It provides basic and standard coding skills, as well as a fruitful range of soft skills. The delay of the CC is approximately between 1 and 2 years. The following information represent the skills developed during this part of the curriculum and the current progression of the student:

Attila Nemet : Common core achieved at: **87%.**

Developed skills during the entire common core:

- *Algorithms & AI:* Standards algorithms on standards structures: searching, sorting, insertion, deletion, balance, on: arrays, linked lists, trees. State machine and asynchronous management.

- *Graphics:* Image management, RGB structure of an image, manipulating areas, drawing into an image, interacting with the window management system and getting user events and inputs from keyboard and mouse, programming with callbacks and event loop.

- *Group & interpersonal:* Collaboration, relationships and group management situations, including different kinds of interactions between people (friendly, tensions ...)

- *Imperative programming:* Basics of coding in C : the C syntax, variable, loops, conditional branches, functions, recursivity, instructions, calculus and expressions, comparisons operators, standard and advanced types, strings processing, structures, includes and libraries, memory allocation and release, linked lists, trees, the C standard library

- *Network & system administration:* Basics of computer networking : IP addresses, subnets, default routing, local network structure, host to host connectivity to network services; Basics of system administration : operating system installation with Linux, setting up security, access, users, storage, installing network services like mail, dns, web server, ...

- *Object-oriented programming:* Object programming principles in C++, classes, namespaces, constructors and destructors, memory management in C++, inheritance, abstraction, overloading, templates, standard C++ library types and tools

- *Rigor:* The need to fulfill administrative and technical constraints. The need for a wide and deep testing process to eliminate failure.

- *System programming:* Classic Unix system interactions : system calls, filesystem access and management, process creation, execution, management; inter-process communications : pipes and signals; device management and ioctl, terminal capabilities; network communication : TCP & UDP sockets, DNS resolution, endianness

- *Web:* The client-server architecture involved in the web, role and actions of the web server, role and actions of the web browser; The HTTP protocol; Web technologies involved : HTML, CSS, Javascript, images and videos; Backend language and framework for dynamic websites: one among php, ruby, python, go, javascript, Rails, Symfony, Django, Node, ... ; MVC model; users web services : web sessions, authentification, cookies, search, caddie, backoffice configuration, ... ; Basics of user experience, user interface, and

design.

Details of each validated project in appendix 1.

<u>The 42 Advanced Part</u>

The 42 Advanced offers a choice of path among various ICT specialisations: each student can select the topic(s) she/he wants to develop and improve. This part of the curriculum also contains several professional experiences (internships, part-time jobs, ...).

No projects completed yet

Professional experience: no professional experience yet

Details of the validated projects in appendix 2.

APPENDIX 1

Projects covered during the common core:

Name	Estimated workload	Result	Associated skills	Validation date
Libft	70H	Pass with bonus	Imperative programming, Rigor, Algorithms & AI	June 16, 2025
get_next_line	55H	Pass with bonus	Rigor, Algorithms & AI, Unix	June 24, 2025
Born2beroot	50H	Pass with bonus	Rigor, Network & system administration	June 27, 2025
ft_printf	55H	Pass with bonus	Rigor, Algorithms & AI	July 03, 2025
pipex	50H	Pass with bonus	Imperative programming, Unix	July 07, 2025
Exam Rank 02	0H	Pass		July 08, 2025
push_swap	50H	Pass with bonus	Imperative programming, Rigor, Algorithms & AI, Unix	July 17, 2025
FdF	60H	Pass with bonus	Imperative programming, Rigor, Algorithms & AI, Graphics	July 21, 2025
Exam Rank 03	0H	Pass		July 23, 2025
Philosophers	70H	Pass with bonus	Imperative programming, Rigor, Unix	July 31, 2025
minishell	210H	Pass	Imperative programming, Rigor, Unix	September 19, 2025
Exam Rank 04	0H	Pass		September 26, 2025
miniRT	280H	Pass with bonus	Imperative programming, Rigor, Algorithms & AI, Graphics	October 16, 2025
NetPractice	50H	Pass	Rigor, Network & system administration	October 20, 2025
CPP Module 00	22H	Pass	Object-oriented programming, Imperative programming, Rigor	October 27, 2025
CPP Module 01	12H	Pass	Object-oriented programming, Imperative programming, Rigor	October 27, 2025
CPP Module 02	12H	Pass	Object-oriented programming, Imperative programming, Rigor	October 28, 2025
CPP Module 03	12H	Pass	Object-oriented programming, Imperative programming, Rigor	October 30, 2025
				November 03,

Name	Workload	Result	Associated skills	Date
CPP Module 04	12H	Pass	Object-oriented programming, Imperative programming, Rigor	2025
CPP Module 05	25H	Pass	Object-oriented programming, Imperative programming, Rigor	November 05, 2025
CPP Module 06	25H	Pass	Object-oriented programming, Imperative programming, Rigor	November 06, 2025
CPP Module 07	25H	Pass	Object-oriented programming, Imperative programming, Rigor	November 07, 2025
CPP Module 08	25H	Pass	Object-oriented programming, Imperative programming, Rigor	November 12, 2025
CPP Module 09	40H	Pass	Object-oriented programming, Imperative programming, Rigor	November 18, 2025
Exam Rank 05	0H	Pass		December 03, 2025
webserv	175H	Pass with bonus	Object-oriented programming, Rigor, Unix, Network & system administration	January 14, 2026
Inception	150H	Pass with bonus	Rigor, Network & system administration	January 22, 2026
Exam Rank 06	0H	Pass		February 12, 2026
ft_transcendence	245H	in progress	Rigor, Web, Group & interpersonal	-

APPENDIX 2

Projects covered during the 42 advanced:

Name	Estimated workload	Result	Associated skills	Validation date
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Internship and professional experiences				
Company name	Duration	Validation	Skills	Validation date
–				

APPENDIX 3

Description of each covered project:

Name	Description
Libft	This project is your very first project as a learner at 42. You will need to recode a few functions from the C standard library, as well as some other utility functions that you will use throughout your whole curriculum.
get_next_line	Whether it's a file, stdin, or even later a network connection, you'll always need a way to read content line by line. It's time to start working on this function, which will be essential for your future projects.
Born2beroot	This project aims to introduce you to the wonderful world of virtualization.
ft_printf	This project is pretty straightforward, you have to recode printf. You will learn what is and how to implement variadic functions. Once you validate it, you will reuse this function in your future projects.
pipex	This project aims to deepen your understanding of the two concepts that you already know: Redirections and Pipes. It is an introductory project for the bigger UNIX projects that will appear later on in the cursus.
Exam Rank	This project will evaluate your abilities and knowledge of programming.

02 push_swap	This project involves sorting data on a stack, with a limited set of instructions, and using the smallest number of moves. To make this happen, you will have to manipulate various sorting algorithms and choose the most appropriate solution(s) for optimized data sorting.
FdF	All programs that you wrote until now were executed in text mode on your terminal. Now, let's discover something more exciting: how to open a graphics window and draw inside? To start your journey in graphic programming, FdF offers to represent "iron wire" meshing in 3D.
Exam Rank 03	This project will evaluate your abilities and knowledge of programming.
Philosophers	This project aims to teach concurrent programming, focusing on multithreading and multiprocessing.
minishell	The objective of this project is for you to create a simple shell.
Exam Rank 04	This project will evaluate your abilities and knowledge about programming.
miniRT	This project is an introduction to the beautiful world of Raytracing.
NetPractice	NetPractice is a hands-on networking project featuring 10 progressive levels that teach essential computer networking fundamentals. Through interactive problem-solving, you'll master TCP/IP addressing, subnet masks, default gateways, routing, and OSI layers by troubleshooting and configuring non-functioning network diagrams. This browser-based training provides practical experience in network administration, preparing you for real-world system administration and networking challenges.
CPP Module 00	This first module of C++ is designed to help you understand the specificities of the language when compared to C. Time to dive into Object-Oriented Programming!
CPP Module 01	This module is designed to help you understand memory allocation, references, pointers to members, and the usage of the switch statement in C++.
CPP Module 02	This module is designed to help you understand ad-hoc polymorphism, function overloading, and orthodox canonical classes in C++.
CPP Module 03	This module is designed to help you understand inheritance in C++.
CPP Module 04	This module is designed to help you understand subtype polymorphism, abstract classes, and interfaces in C++.
CPP Module 05	This module is designed to help you understand try/catch and exceptions in C++.
CPP Module 06	This module is designed to help you understand the different types of casting in C++.
CPP Module 07	This module is designed to help you understand templates in C++.
CPP Module 08	This module is designed to help you understand templated containers, iterators, and algorithms in C++.
CPP Module 09	This module is designed to help you understand containers in C++.
Exam Rank 05	This project will evaluate your abilities and knowledge about programming.
webserv	This project aims to create your own HTTP server. You will be able to test it with a real web browser. HTTP is one of the most used protocols on the internet. Knowing its intricacies will be useful, even if web development is not on your carreer path.
Inception	Broaden your system administration skills by working with Docker. In this project, you'll set up a complete infrastructure using Docker Compose, creating and managing multiple containerized services including NGINX with SSL/TLS, WordPress with php-fpm, and MariaDB. You'll gain hands-on experience with containerization, networking, volume management, and secure web service deployment within your own personal virtual machine.
Exam Rank 06	This project will evaluate your abilities and knowledge about programming.