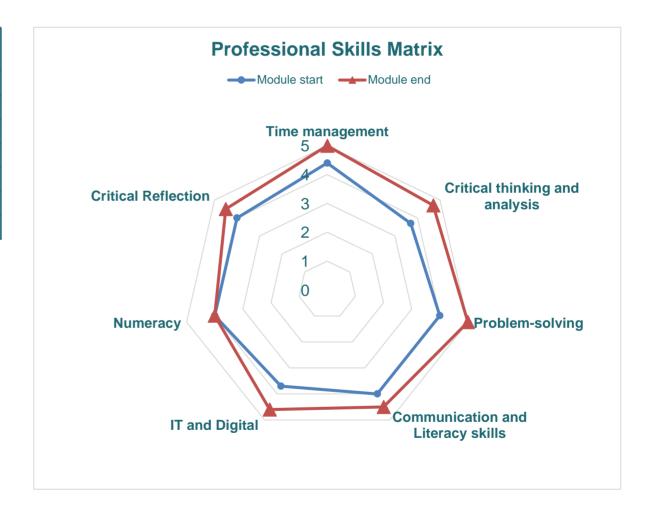
Professional Skills Matrix

Date: 2025.01.26

Student name: Andrius Busilas

Skills	Module start	Module end	
Time management	4.4	5	
Critical thinking and analysis	3.7	4.7	
Problem-solving	4	5	
Communication and Literacy skills	4	4.5	
IT and Digital	3.7	4.6	
Numeracy	4	4	
Critical Reflection	4	4.5	



Professional Development Plan

Date: 2025.01.26
Student name: Andrius Busilas

Planned training

Training	Provider	Link to course	Development objectives	Status	Timeline
CS50's Introduction to Programming with Python (CS50 Python)	Harward University	https://cs50.harvard.edu/pyt hon/2022/	 Acquire foundational programming skills through an introductory course focusing on Python, including reading, writing, testing, and debugging code effectively. Cater to individuals with varying levels of programming experience to foster learning specifically in Python. Master core programming concepts such as functions, arguments, return values, variables, types, conditionals, Boolean expressions, and loops. Develop proficiency in handling exceptions, debugging code, writing unit tests, utilizing third-party libraries, validating data with regular expressions, and manipulating files. Gain practical experience in modeling real-world entities using classes, objects, methods, and properties. Emphasize hands-on practice through exercises inspired by real-world programming challenges to reinforce learning. Provide flexibility in coding environments, enabling participants to utilize a web browser or 	Completed	Dec 2023 - Apr 2024
100 Days of Code: The Complete Python Pro Bootcamp by Dr. Angela Yu	Udemy	https://www.udemy.com/course/100-days-of-code/	1. Explore a diverse range of tools and technologies within the Python ecosystem, including Python 3, PyCharm, Jupyter Notebook, Python Scripting, Web Development, Data Science, GUI Desktop App Development, Version Control, Backend Web Development, and deployment strategies. 2. Develop competence in key Python libraries and frameworks such as Pandas, NumPy, Matplotlib, Flask, REST APIs, SQL databases, authentication mechanisms, and web design principles, fostering a well-rounded skill set as a Python developer.	Completed	Nov 2023 - Sep 2024
CS50's Introduction to Computer Science (CS50x)	Harward University	https://cs50.harvard.edu/x/2 024/		Completed	Feb 2024 - Oct 2024

REST APIs with Flask and Python in 2024	Udemy	https://www.udemy.com/cou	Connect web or mobile applications to databases and servers via REST APIs		Nov 2024 - Jan 2025
	,	rse/rest-api-flask-and-python	2. Create secure and reliable REST APIs which include authentication, deployments, and		
		rse/rest-api-nask-and-python	database migrations		
			3. Understand the different layers of a web server and how web applications interact with each		
			other		
			4. Handle seamless user authentication with advanced features like token refresh		
			Handle log-outs and prevent abuse in your REST APIs with JWT blacklisting		
			6. Develop professional-grade REST APIs with expert instruction		
			7. Ontimize performance of your REST APIs using task queues and background workers		
S50's Introduction to Cybersecurity	Harward University	https://cs50.harvard.edu/cyb	1. Gain an introductory understanding of cybersecurity suitable for both technical and non-		start from Jun 2024
CS50 Cybersecurity)		ersecurity/2023/	technical individuals.		
•		ersecurity/2023/	2. Learn essential strategies to protect accounts, data, systems, and software from current		
			threats and develop skills to anticipate and assess future threats in personal and professional		
			settings.		
			3. Acquire knowledge on safeguarding personal privacy in the digital realm.		
			4. Develop a nuanced perspective on cybersecurity, viewing it as a balance between risks and		
			rewards for adversaries and costs and benefits for oneself.		
			5. Recognize the trade-off between cybersecurity measures and usability, emphasizing the		
			importance of finding a balance between security and user experience.		
			6. Comprehend cybersecurity threats through a mix of high-level and low-level examples to		
			ensure a comprehensive technical understanding.		
S50's Introduction to Databases with	Harward University	https://cs50.harvard.edu/sql/	7. Engage in assignments inspired by real-world cybers equity incidents to enhance practical. 1. Utilizing SQL as the primary language to build foundational knowledge on data management.	Ongoing	Feb 2024 - Now
SQL (CS50 SQL)		2024/	2. Master the essential operations of creating, reading, updating, and deleting data within		
		<u> </u>	relational databases, structured in rows and columns.		
			3. Develop skills in modeling real-world entities and establishing relationships among them		
			through tables equipped with appropriate data types, triggers, and constraints.		
			5. Learn techniques for normalizing data to enhance efficiency, eliminate redundancies, and		
			minimize the risk of errors in database operations.		
			6. Acquire proficiency in joining tables using primary and foreign keys, facilitating efficient data		
			retrieval and manipulation.		
			7. Explore advanced concepts such as using views to automate searches and indexes to		
			optimize search performance.		
			8. Understand the integration of SQL with other programming languages like Python and Java to		
			enhance versatility and interconnectedness in data management.		
			Begin with SQLite for portability and progress towards PostgreSQL and MySQL to delve into		
			scalable database solutions, ensuring adaptability across different environments.		
			Engage in assignments inspired by real-world datasets to apply learned concepts in practical		
	11. 111.1				0
S50's Web Programming with Python	Harward University	https://cs50.harvard.edu/we	1. Enhance proficiency in designing and developing web applications using Python, JavaScript,		Start from Mar 2025
nd JavaScript (CS50 Web)		b/2020/	and SQL, with a focus on frameworks such as Django, React, and Bootstrap.		
			2. Gain in-depth knowledge and skills in database design, scalability, security, and enhancing		
			user experience in web applications.		
			3. Develop practical expertise through hands-on projects involving writing and utilizing APIs,		
			creating interactive user interfaces, and utilizing cloud services like GitHub and Heroku.		
			4. Acquire the ability to independently design and deploy web applications by the end of the		
			personal development plan, demonstrating mastery of key principles, languages, and tools		

CS50's Introduction to Artificial Intelligence with Python (CS50 AI)	Harward University	https://cs50.harvard.edu/ai/2 024/	1. Enroll in a course focusing on the fundamental concepts and algorithms underpinning modern artificial intelligence, targeting a deeper understanding of technologies like game-playing engines, handwriting recognition, and machine translation within a defined timeline. 2. Engage in hands-on projects to apply theoretical concepts in practice, exploring graph search algorithms, classification, optimization, machine learning, large language models, and other key topics in artificial intelligence through the creation of Python programs. 3. Utilize project-based learning to enhance knowledge and skills in machine learning libraries, enabling practical application and implementation of artificial intelligence principles in personalized programming projects. 4. Cultivate expertise in utilizing libraries for machine learning and integrating artificial intelligence principles to develop intelligent systems, fostering the capability to design and construct innovative solutions informed by AI technologies. 5. Develop a comprehensive understanding of the core principles and methodologies governing artificial intelligence through practical application and experimentation, ensuring proficiency in designing intelligent systems and leveraging AI techniques effectively. 6. Focus on incorporating artificial intelligence concepts and algorithms into Python programs, reinforcing the connection between theory and practical implementation in order to strengthen overall proficiency in AI development. 7. Complete the course with a robust portfolio of hands-on projects showcasing expertise in	Start from Nov 2024