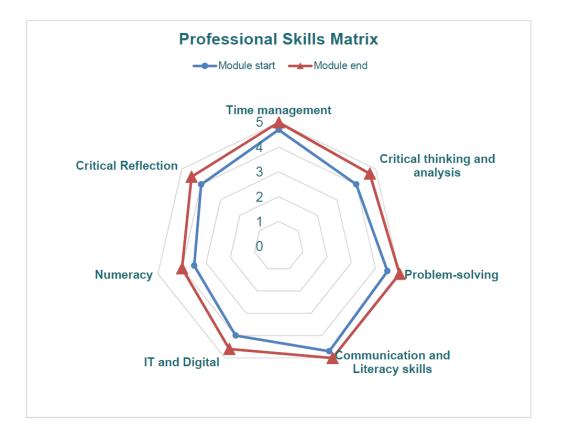
Professional Skills Matrix

Date: 2024.07.22

Student name: Andrius Busilas

Skills	Module start	Module end	
Time management	4.7	5	
Critical thinking and analysis	4	4.7	
Problem-solving	4.5	5	
Communication and Literacy skills	4.7	5	
IT and Digital	4	4.6	
Numeracy	3.5	4	
Critical Reflection	4	4.5	



Professional Development Plan

Date: Andrius Busilas

Student name: 2024.07.22

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 individual PC/Mac for coding purposes.	·	Dec 2023 - Apr 2024
100 Days of Code: The Complete Python Pro Bootcamp by Dr. Angela Yu	Udemy	https://www.udemy.com/co urse/100-days-of-code/	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. 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.	Ongoing	Nov 2023 - Now
CS50's Introduction to Computer Science (CS50x)	Harward University	https://cs50.harvard.edu/x/2 024/	1. Develop problem-solving skills with an emphasis on correctness, design, and coding style, encompassing both code-based and non-code-based solutions. 2. Delve into computational thinking, abstraction, algorithms, data structures, and broader computer science concepts to enhance overall understanding. 3. Work on problem sets inspired by various disciplines to foster creativity and interdisciplinary learning. 4. Learn fundamental programming principles that transcend specific languages, enabling the ability to adapt and learn new languages independently. 5. Begin with the foundational language C to grasp core concepts such as functions, variables, conditionals, loops, and gain insights into computer architecture and memory management. 6. Progress to Python, building on the understanding gained from C, and later explore SQL for database management, along with HTML, CSS, and JavaScript for web and mobile app development. 7. Conclude the course with a final project that integrates learned skills and knowledge into a practical application, showcasing proficiency in programming and problem-solving.	Ongoing	Feb 2024 - Now

CS50's Introduction to Cybersecurity (CS50 Cybersecurity)	Harward University	https://cs50.harvard.edu/cyb ersecurity/2023/	Gain an introductory understanding of cybersecurity suitable for both technical and non-technical individuals. 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. Acquire knowledge on safeguarding personal privacy in the digital realm. Develop a nuanced perspective on cybersecurity, viewing it as a balance between risks and rewards for adversaries and costs and benefits for oneself. Recognize the trade-off between cybersecurity measures and usability, emphasizing the		start from Jun 2024
			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. 7. Engage in assignments inspired by real-world cybersecurity incidents to enhance practical		
CS50's Introduction to Databases with SQL (CS50 SQL)	Harward University	https://cs50.harvard.edu/sql /2024/	management. 2. Master the essential operations of creating, reading, updating, and deleting data within 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. 9. 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	Ongoing	Feb 2024 - Now
CS50's Web Programming with Python and JavaScript (CS50 Web)	Harward University	https://cs50.harvard.edu/we b/2020/	Enhance proficiency in designing and developing web applications using Python, JavaScript, and SQL, with a focus on frameworks such as Django, React, and Bootstrap. Gain in-depth knowledge and skills in database design, scalability, security, and enhancing user experience in web applications. Develop practical expertise through hands-on projects involving writing and utilizing APIs, creating interactive user interfaces, and utilizing cloud services like GitHub and Heroku. 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 essential for internet application development.		Start from Aug 2024

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CS50's Introduction to Artificial	Harward University	https://cs50.harvard.edu/ai/	Enroll in a course focusing on the fundamental concepts and algorithms underpinning	١	Start from Nov 2024
Intelligence with Python (CS50 AI)	1	2024/	modern artificial intelligence, targeting a deeper understanding of technologies like game-		
	1	2021/	playing engines, handwriting recognition, and machine translation within a defined timeline.		
	1		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.		
			Utilize project-based learning to enhance knowledge and skills in machine learning libraries.		
			enabling practical application and implementation of artificial intelligence principles in		
			0		
			personalized programming projects.		
			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 Al development.		
			7. Complete the course with a robust portfolio of hands-on projects showcasing expertise in		
			machine learning libraries and practical application of artificial intelligence concepts,		
			demonstrating readiness to tackle complex AI challenges and design intelligent systems of		
			their own.		