Professional Skills Matrix and Development Plan

Skill	Proficiency Level	Experience/Examples	Areas for Improvement	Development Plan
Time Management	Intermediate	Managed deadlines across discussions, independent tool learning and two major assignments. Prioritised Plotly and NiceGUI but underestimated effort for the threat modelling task.	Spent more time than expected on complex tasks like threat modelling due to lack of experience.	Set clearer weekly goals at the start of each module and allocate extra time for unfamiliar tasks.
Critical Thinking and Analysis	Intermediate	Applied STOW, STRIDE and DREAD to analyse shifting risks from pre- to post-digitisation.	Delayed application of structured frameworks and deeper risk evaluation early on.	Engage with key frameworks earlier and use case-based analysis to apply them more effectively.
Communication and Literacy Skills	Intermediate	Improved clarity in discussion posts by using guiding questions. Adapted writing to better meet expectations from earlier modules.	Occasionally misinterpreted task briefs such as the disaster recovery diagram and GDPR case study.	Refine task analysis and use peer or tutor feedback to clarify ambiguous instructions.
IT and Digital Skills	Advanced	Built a functional risk visualisation app using Plotly and NiceGUI. Integrated JSON data and used Replit, pytest and pylint for development and quality assurance.	Limited use of alternative modelling formats such as YAML or XML.	Experiment with a wider range of data modelling tools and data structures.
Numeracy	Basic	Calculated risk propagation using AND/OR gates and percentage likelihoods in the attack tree model.	Greater confidence needed in handling risk scoring and summarising risk values.	Study practical examples of numeric based risk evaluation models.
Research	Intermediate	Independently located resources when course materials were outdated. Used academic and technical documentation to guide development.	Struggled to find current references early in the module, particularly for GDPR material.	Begin research and maintain a record of useful, reliable sources.
Interpersonal Skills	Basic	Worked independently due to low cohort numbers. Participated in discussions and responded to peer posts.	Minimal peer interaction limited opportunities for collaboration and discussion.	Contribute actively to forums and explore informal peer learning groups.
Problem-Solving	Intermediate	Resolved development challenges such as tool selection, visualisation logic and data structure design in the app.	Initially unsure how to apply frameworks like STRIDE effectively.	Reinforce framework use through additional case studies
Ethical Awareness	Intermediate	Considered GDPR, ethical implications of digital transformation, and reflected on outdated regulatory examples in coursework.	Case studies used in the module were outdated, reducing practical relevance.	Follow updates in digital ethics and legislation through trusted news and academic sources.