**Professional Skills Matrix and Action Plan**

| **Competency** | **Essex Graduate** | **Skill** | **Skill Level** | **Evidence** |
| --- | --- | --- | --- | --- |
| **Professional** | **Literacy, Communication, Language Skills** | Express information effectively to technical and non-technical audiences | Proficient | Demonstrated in the assignment submissions. |
| Create documents to aid your communication (reports, diagrams, legal descriptions, plans, manuals and charts) | Proficient | Demonstrated in the assignment submissions. |
| **Commercial Awareness** | Keep current with tools of the industry, as well as emerging technology | Proficient | Demonstrated during several website scanning activities. |
| Seek opportunities to improve and share knowledge of tools and technology that may improve productivity | Proficient | Demonstrated during several website scanning activities and assignment submissions. |
| Participate in scientific and professional organisations | Proficient | Member of the following international professional organisations:   * The International Information System Security Certification Consortium (ISC)²; * Information Systems Audit and Control Association (ISACA) |
| Emphasise quality, customer satisfaction and proper application of policies. | Proficient | Demonstrated in the assignment submissions. |
| Demonstrate familiarity with codes of conduct for the Computing field. | Proficient | As a member of professional organisations such as (ISC)² and (ISACA), I have demonstrated a good understanding of codes of conduct for the Computing field.  In addition, as part of the data breach case study assessed during a seminar, I have demonstrated this competency. |
| **Subject understanding, research, critical thinking, time management** | Critically analyse complex ideas in concepts in the field of Computer Science | Proficient | As part of case studies assessed during seminars, including case studies related to GDPR noncompliance, I have demonstrated this competency. |
| Recognise inconsistencies and gaps in information, and search for additional information when needed. | Proficient | Same as above |
| Explore complex real-world problems in a Computing context | Proficient | Same as above |
| **Legal and Ethical** | **Ethical Awareness** | Comply with the letter and spirit of applicable laws | Proficient | As a member of professional organisations such as (ISC)² and (ISACA), I have demonstrated a good understanding of laws, regulations and industry standards. |
| Maintain privacy and confidentiality of company, co-worker and customer information | Proficient | As part of a case study related to GDPR noncompliance, I have demonstrated this competency. |
| **Social (inc. Teamwork)** | **Cultural Awareness** | Act in the best interest of the community at large - Social (Community) Responsibility | Proficient | Team contract;  100% Seminar participation; and  100% Group meetings |
| **Teamwork, Leadership and Resilience, Time Management** | Collaborate effectively in diverse teams to achieve team goals | Proficient | Among other team activities, actively participated in collaborative discussions. |
| Meeting team objectives using teamwork skills | Proficient | Team contract;  100% Seminar participation; and  100% Group meetings |
| Demonstrate skills in leadership and team building | Proficient | Same as above |
| Give and receive constructive feedback | Proficient | Among other team activities, actively participated in collaborative discussions. |
| **Creativity, Entrepreneurial, Problem solving, Initiative, Decision Making** | Create, discuss and deliver strategies for sustainability for all stakeholders (company, community and environment) | Proficient | Demonstrated during several website scanning activities and assignment submissions. |
| Able to make a decision on a complex matter/scenario using multiple sources of information | Proficient | During this module, we had an issue related to AWS, and we handled the situation effectively. |
| **Technical (Data Science)** | **IT and Digital, Numeracy** | *Technical skills relevant to the module:* |  | Demonstrated during several website scanning activities and assignment submissions. |
| Burpsuite | Proficient |
| Dig | Proficient |
| Dnschecker | Proficient |
| GDPR Compliance Test | Trained |
| HPing | Proficient |
| HTTP Headers Security Test | Trained |
| Jawfish | Proficient |
| Kali Linux | Proficient |
| Metasploit | Proficient |
| Nessus | Proficient |
| Nikto | Proficient |
| Nmap | Proficient |
| Nslookup | Proficient |
| OWASP Zap | Proficient |
| PCI DSS Compliance Test | Trained |
| Ping | Proficient |
| Security risk assessment models: STRIDE and DREAD | Trained |
| Software Security Test | Trained |
| SQLMap | Proficient |
| SSLScan | Proficient |
| TCP/IP OSI 7 layer model | Proficient |
| Traceroute | Proficient |
| Web Server Security Test | Proficient |
| Whois | Proficient |
| Wireshark | Proficient |
| HyperText Markup Language | Proficient |
| Gits - repository development and maintenance | Proficient |
| Use of conferencing technologies and Moodle (VLE) | Proficient |
| Use of Word Processing tools and Spreadsheets | Proficient |
| Effective use of e-library resources | Proficient |
| **Subject Application** | **Global Citizen, Teamwork, Leadership, Emotional Intelligence** | Take into account other people's perspectives | Proficient | Team contract;  100% Seminar participation; and  100% Group meetings  In addition, among other team activities, I actively participated in collaborative discussions. |
| Work constructively with differences in viewpoints | Proficient | Same as above |
| Actively participate in a range of community activities as an informed citizen | Proficient | As a member of professional organisations such as (ISC)² and (ISACA), I participate in local chapter activities. |
| **Decision Making, Initiative, Emotional Intelligence, Ethical Awareness** | Develop, articulate and clarify your personal values and ethics | Proficient | Among other activities, by participating in local chapter activities, I have demonstrated this competency. |

Action Plan: <https://github.com/narunanthy74/ePortfolio/tree/main/Action%20Plan>

**Skill Level Key**

Aware General understanding and basic knowledge

Trained Able to apply knowledge, able to work independently under certain conditions

Proficient Broad and in-depth knowledge, able to work independently with very little supervision

Expert Seen as a subject matter expert, able to lead and train others.