

# **Internship Design Proposal**

**Submitted By:**

**Roonaq Imtiaz**

**FA23-BCS-150**

**BS Computer Science**

**Winter 2026**

**13 January 2026**



**COMSATS University Islamabad, Abbottabad Campus**

## 1. Organization Overview & Role

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Allama Iqbal Open University (AIOU) is one of Pakistan's largest distance education institutions, providing higher education to millions of students nationwide. Its Directorate of ICT – Networks and Data Centre oversee the university's technology infrastructure including network operations, server administration, data management, system security, and digital services delivery.

During this six-week virtual internship, I am placed within the Cybersecurity domain of the ICT Directorate. My expected role involves completing structured weekly tasks assigned by the external supervisor, studying cybersecurity concepts through platforms such as TryHackMe and Coursera, delivering a technical presentation on the Cyber Kill Chain, practicing Linux administration on a virtual machine, and developing and deploying a cybersecurity portfolio website (CyberFolio) as the final internship deliverable.

## 2. Scope of Work

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The internship spans six weeks, each with defined tasks and learning milestones. The scope covers studying foundational cybersecurity and networking concepts, researching and presenting the Cyber Kill Chain framework, completing a Linux Essentials course with hands-on Ubuntu VM practice, learning SQL for security-relevant database querying, studying assets, threats, and vulnerabilities, and building and deploying CyberFolio; a professional cybersecurity portfolio website. Weekly progress reports are submitted as documentation deliverable throughout.

### 2.1. Key Activities (check all that apply):

<input type="checkbox"/> Coding	<input type="checkbox"/> Testing	<input checked="" type="checkbox"/> Documentation	<input type="checkbox"/> Data Analysis
<input checked="" type="checkbox"/> Research	<input type="checkbox"/> Technical Support	<input type="checkbox"/> Dashboard/Report Creation	<input checked="" type="checkbox"/> Other (see below)

Other: Cybersecurity learning & portfolio website development (HTML, CSS, JavaScript)

## 2.2. Tools/Technologies to be used:

- TryHackMe – interactive cybersecurity learning (SOC Level 1, Cyber Kill Chain, Cyber Defence Frameworks)
- Coursera – Google Cybersecurity Certificate courses
- Cisco Networking Academy – Introduction to Cybersecurity
- Ubuntu Virtual Machine – Linux hands-on practice
- Bash Shell – command-line navigation, file management, and scripting
- SQL – database querying for security analysis
- HTML, CSS, JavaScript – front-end development for CyberFolio website
- Google Meet – virtual meetings and presentation delivery

## 2.3. Expected Deliverables:

- Week 1: Cybersecurity terminology assignment covering networking and threat concepts
- Week 2: Formal Cyber Kill Chain presentation delivered via Google Meet
- Week 3: Completion of Linux Essentials course with Ubuntu VM practice
- Week 4: Completion of Coursera 'Tools of the Trade: Linux and SQL' course
- Week 5: CyberFolio – a fully deployed cybersecurity portfolio website
- Weeks 1–6: Weekly progress reports submitted to both supervisors
- Week 6: Comprehensive Internship Report (CUI format)

<b>Student Name:</b> Roonaq Imtiaz Date: 13 January 2026	<b>Internship Supervisor :</b> Ms. Laiba Bukhari Date: 13 January 2026
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