

Assignment 2: Career Project

26 Jan 2025

Content:

1. Career Project – 50 marks
2. Financial Literacy MCQ – 10 marks

Career Project

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| **Format** |

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| 1. Report | 50 marks |
| 1. MCQ | 10 marks |
| **Total** | 60 marks |

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| **Purpose of the Assignment** |

1. Increase your awareness of companies in the industry and the variety of opportunities that are available;
2. Apply a systematic approach to demonstrate informed career decision making with consideration of factors that are important to you;
3. Create a LinkedIn Account for networking and portfolio building.
4. Increase awareness of using limited financial resources responsibly.

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| 1. **Career Report with creation of the Linkedin Account (50 marks)** |

1. Identify one sector, company and job which you may be interested in working for in the future. Do sector, company and job research using the worksheet in Appendix A. Provide supporting documents; and
2. Create a LinkedIn account to show a summary page of yourself with at least 10 connections made in the capacity of the sector, company or job that you may have an interest in working for in the future.

Your Career Report will include documents from (i) and (ii).

***Please remember to include the link of your linkedIn account in your career report.***

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| 1. **Financial Literacy MCQ (10 marks)** |

With an understanding of the type of salary range you will receive in your first job, complete the financial literacy MCQs to better plan and align your financial and career goals.

**Career Report**

Name: Joshua Long Yu Xuan

Admin No.: 230627W

Diploma: Diploma in Information Technology (DIT)

School: School of Information Technology (SIT)

Expected Graduation Year: 2026

Career Research Report Update: 26-01-2025

**Appendix Ai) – Sector, Company and Job Research Worksheet**

Use this worksheet as a guide for your research. The information gathered can be used to help you prepare your Career Research Project Report. Provide supporting documents e.g. Skills Framework, company website, job advertisement, RIASEC profile (refer to Topics 1.3 3.1 and 3.2).

**Name of Sector:** Information Technology

**Name of Company :** Urban Redevelopment Authority of Singapore (URA)

**Job Title:** Full Stack Developer

**Emerging trends in the sector:**

**Serverless Architecture** – AWS Lambda and Google Cloud Functions allow Developers to focus on code without worrying about server management, which is ideal for scalable modern services, such as interactive maps or real-time analysis tools

**Web3 and Decentralised Apps** – Blockchain technologies are being explored for secure data sharing and transimission

**Low-code and No-code platforms** – These platforms empower people who do not have the technical skills and knowledge required to code, to build simple applications which is useful and crucial in departments with limited IT resources and manpower

*References and quotes from:*

<https://straitsresearch.com/report/serverless-architecture-market>

<https://www.forbes.com/sites/kalinabryant/2024/04/23/understanding-web3-and-its-impact-on-the-internet-and-society/>

<https://www.forbes.com/councils/forbestechcouncil/2023/08/11/how-low-code-and-no-code-software-impact-the-future-of-development/>

**Company’s Vision, Mission, Values, Culture**

**Vision**: URA envisions **making Singapore a great city to live, work, and play**. This vision is centered on creating a vibrant, sustainable, and distinctive city that balances economic growth with a high quality of life. URA’s long-term planning approach ensures that Singapore remains a liveable and endearing home for current and future generations

**Mission**: URA’s mission is to **plan and facilitate the physical development of Singapore** in partnership with the community. This includes:

* **Land Use Planning**: Formulating strategic plans like the Concept Plan and Master Plan to guide sustainable development.
* **Conservation**: Preserving Singapore’s architectural and cultural heritage, with over 7,200 buildings and structures conserved to date.
* **Urban Design Excellence**: Promoting innovative architecture and creating vibrant public spaces that enhance the cityscape.
* **Community Engagement**: Collaborating with stakeholders and the public to shape Singapore’s urban environment, as seen in initiatives like the Draft Master Plan 2025 public engagement

**Values**: URA’s values are reflected in its commitment to:

1. **Sustainability**: Balancing economic growth with environmental and social considerations to ensure long-term resilience.
2. **Innovation**: Adopting forward-thinking approaches to urban planning and design, such as integrating modern architecture with heritage conservation.
3. **Inclusivity**: Engaging the community in planning processes and ensuring that urban spaces cater to diverse needs.
4. **Stewardship**: Protecting Singapore’s built heritage and fostering a sense of national identity through conservation efforts

**Culture**: URA’s culture is characterized by:

* **Collaboration**: Working closely with government agencies, private sector partners, and the community to achieve shared goals.
* **Excellence**: Striving for high standards in urban planning, design, and conservation, as evidenced by internationally recognized programs like the Architectural Heritage Awards.
* **Adaptability**: Responding to changing needs and challenges, such as integrating new technologies and addressing land scarcity while preserving heritage.
* **Community-Centric Approach**: Encouraging public participation in shaping Singapore’s urban landscape, as seen in initiatives like the ‘Mad About Singapore’ exhibition

**What skills and attributes are required?**

* **Technical Skills**:
  + **Front-End Development**: Proficiency in HTML, CSS, JavaScript, and frameworks like React, Angular, or Vue.js for creating user interfaces.
  + **Back-End Development**: Expertise in server-side languages like Node.js, Python, or Java, and frameworks such as Express.js or Django.
  + **Database Management**: Knowledge of relational (e.g., MySQL, PostgreSQL) and non-relational databases (e.g., MongoDB).
  + **API Development**: Ability to design and integrate APIs for seamless data exchange.
  + **DevOps and Deployment**: Familiarity with cloud platforms (e.g., AWS, Google Cloud) and tools like Docker for deployment.
* **Soft Skills**:
  + **Problem-Solving**: Ability to troubleshoot and resolve issues across the entire stack.
  + **Communication**: Effective collaboration with cross-functional teams and stakeholders.
  + **Adaptability**: Willingness to learn new technologies and adapt to evolving project requirements.

**What qualifications and training are required?**

* **Educational Background**: A degree in Computer Science, Software Engineering, or a related field is typically required.
* **Certifications**: Certifications in full-stack development (e.g., Microsoft Full-Stack Developer, IBM Full Stack Software Developer) can enhance your profile.
* **Practical Experience**: Hands-on experience through internships, personal projects, or bootcamps is highly valued.

**Working with Things, Ideas, People or Data?**

* **Things**: Developing and maintaining software applications, tools, and platforms.
* **People**: Collaborating with cross-functional teams, including designers, product managers, and other developers.
* **Ideas**: Innovating solutions for urban planning, sustainability, and digital transformation.
* **Data**: Managing and analyzing data to support decision-making and improve system performance

**Work Environment**

* **Collaborative**: URA emphasizes teamwork and community engagement in its projects.
* **Innovative**: The agency is known for adopting cutting-edge technologies and sustainable practices.
* **Dynamic**: Developers often work on diverse projects, from urban planning tools to public-facing applications.

**Career Outlook and Progression**

* **Demand**: Full Stack Developers are in high demand globally, with a 23% increase in job postings from 2021 to 2023.
* **Salary**: In Singapore, Full Stack Developers earn competitive salaries, with experienced professionals commanding higher pay.
* **Progression**: Career growth can include roles like Senior Developer, Technical Lead, or transitioning into specialized areas like DevOps or Data Engineering.

**What are other companies offering this Job?**

* **Government Agencies**: Similar roles may exist in other government bodies like GovTech or HDB.
* **Tech Companies**: Firms like Grab, Shopee, and Lazarus often hire Full Stack Developers for their digital platforms.
* **Consulting Firms**: Companies like Deloitte and Accenture offer opportunities in full-stack development for enterprise clients.

**Appendix Aii) – Creation of Linkedin Account**

**Include your LinkedIn Account link here :** [Joshua Long | LinkedIn](https://www.linkedin.com/in/joshua-long-1a21ba257/)

(refer to Topics 1.2, 2.1)

Introduce students to LinkedIn – a business and employment-focused social media platform that is accessible through websites and mobile apps. Students can use LinkedIn to find job or internship, connect with professionals, learn skills required for work, share knowledge, and build their personal brand. A complete LinkedIn profile allows students to summarise and showcase their professional experiences, milestones, skills and interests to their connections and prospective employers.

1. **Go to LinkedIn:** Visit the LinkedIn website at [www.linkedin.com](http://www.linkedin.com/).
2. **Sign Up:** On the LinkedIn homepage, you'll see a section to sign up. Fill in your first name, last name, email address, and a password. Make sure the password is secure.
3. **Click "Join Now":** Once you've filled in the required fields, click on the "Join Now" button.
4. **Complete Your Profile:** LinkedIn will then guide you through a series of steps to complete your profile. This will include adding a profile picture, your current job title, company, education, and skills.
5. **Add Connections:** LinkedIn will prompt you to connect with people you may know based on your email contacts. You can also search for specific individuals or import contacts from other services like Gmail.
6. **Verify Email:** LinkedIn may ask you to verify your email address by sending you a verification link. Check your email inbox for a message from LinkedIn and follow the instructions to verify your email address.
7. **Explore LinkedIn Features:** Once your account is set up, you can explore various features of LinkedIn such as joining groups, following companies, searching for jobs, and engaging with content in your feed.
8. **Customize Your Privacy Settings:** It's essential to review and customize your privacy settings according to your preferences. You can control who can see your profile, who can contact you, and other privacy-related options.
9. **Build Your Network:** Start connecting with professionals in your industry, former colleagues, classmates, and others who may be beneficial to your professional network.
10. **Engage with Content:** Engage with content by liking, commenting, and sharing posts that are relevant to your interests and industry. This helps to establish your presence on the platform and can also attract others to connect with you.

You can also watch this video tutorial on how to do so.

Time : 3.35 minutes

Link : [Set up a new LinkedIn account - LinkedIn Video Tutorial](https://www.linkedin.com/learning/learning-linkedin-2023/set-up-a-new-linkedin-account?autoplay=true&trk=learning-course_tocItem&upsellOrderOrigin=default_guest_learning)   
[Get started with LinkedIn - LinkedIn Video Tutorial | LinkedIn Learning, formerly Lynda.com](https://www.linkedin.com/learning/learning-linkedin-2023/get-started-with-linkedin?autoplay=true&trk=course_preview&upsellOrderOrigin=default_guest_learning)