

ROLES

Systems Analysis

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2024-I



Outline

1 Analysts



2 Software Engineering



3 Leaders



Outline

LLMOps
LLM Engineer

1 Analysts

2 Software Engineering

3 Leaders



Business Analyst

- Skills:

- Strong analytical and problem-solving skills.
- Excellent communication and interpersonal skills.
- Business process modeling and documentation.
- Data analysis and interpretation.
- Requirements gathering and management.
- Stakeholder management.

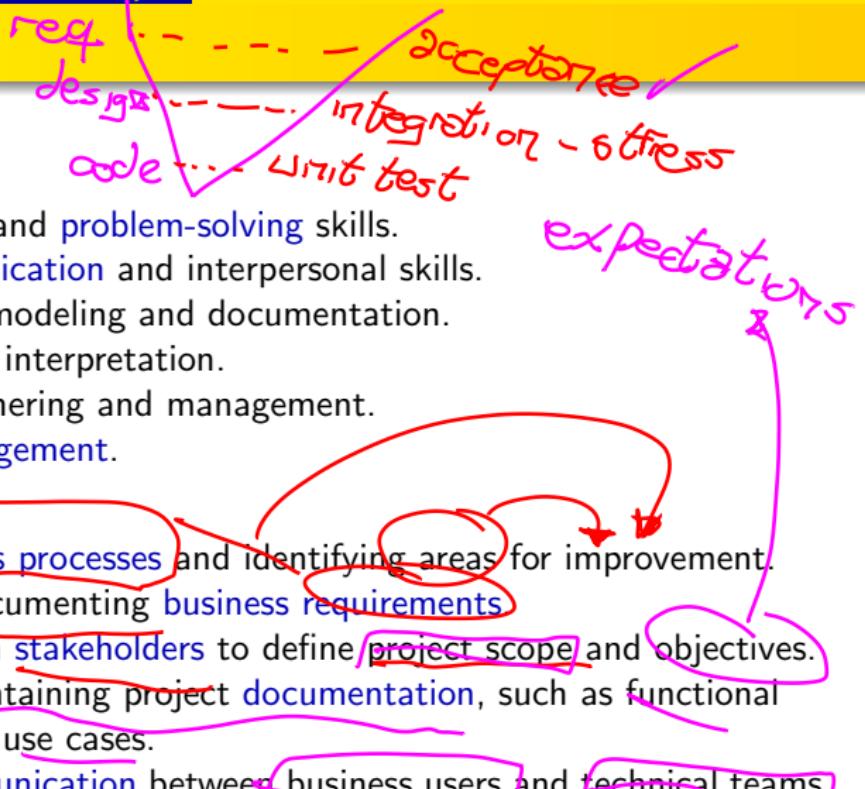
- Responsibilities:

- Analyzing business processes and identifying areas for improvement.
- Gathering and documenting business requirements.
- Collaborating with stakeholders to define project scope and objectives.
- Creating and maintaining project documentation, such as functional specifications and use cases.
- Facilitating communication between business users and technical teams.
- Participating in system testing and user acceptance testing.
- Providing support and training to end users.



Business Analyst

Analysts



Computer Analyst

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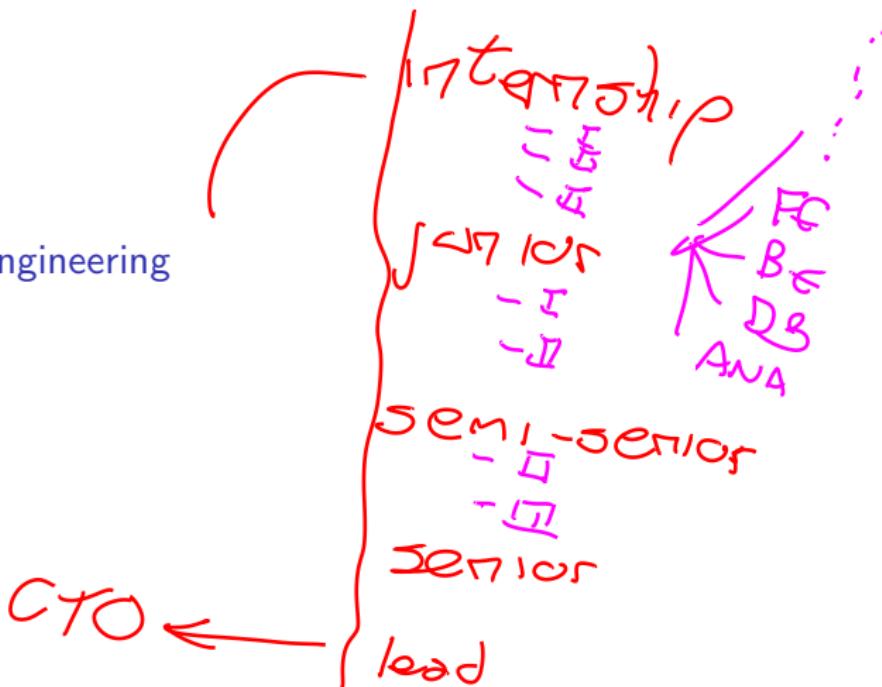
Outline

experience
self-regulation

1 Analysts

2 Software Engineering

3 Leaders



Software Developer (Engineer)

- Skills:

- Strong analytical and problem-solving skills.
- Excellent communication and interpersonal skills.
- Proficiency in programming languages and software development tools.
- Knowledge of software development methodologies.
- Ability to work independently and in a team environment.

- Responsibilities:

- Designing, coding, and testing software applications.
- Collaborating with other developers to design and implement new features.
- Troubleshooting and debugging software applications.
- Writing clean, maintainable code.
- Documenting software specifications and user manuals.
- Providing support and training to end users.

Git
Trello
Jira

product + expectation



Software Developer (Engineer)

Job



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edge cases

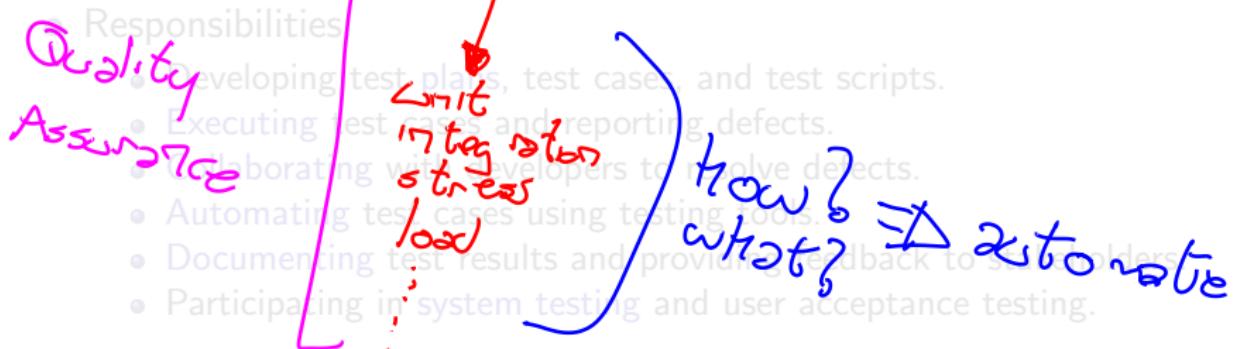
chatbot



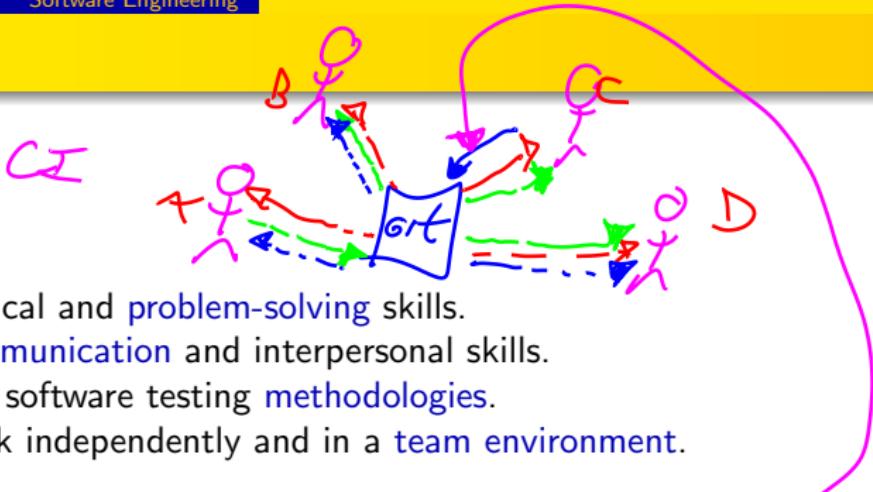
Software Tester

- Skills:

- Strong analytical and problem-solving skills.
- Excellent communication and interpersonal skills.
- Knowledge of software testing methodologies.
- Ability to work independently and in a team environment.



Software Tester



- Skills:

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- Knowledge of software testing methodologies.
- Ability to work independently and in a team environment.

- Responsibilities:

- Developing test plans, test cases, and test scripts.
- Executing test cases and reporting defects.
- Collaborating with developers to resolve defects.
- Automating test cases using testing tools.
- Documenting test results and providing feedback to stakeholders.
- Participating in system testing and user acceptance testing.



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Y - 10000
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Z - 3000

\$ 48000 <5>

Data Engineer

- Skills:

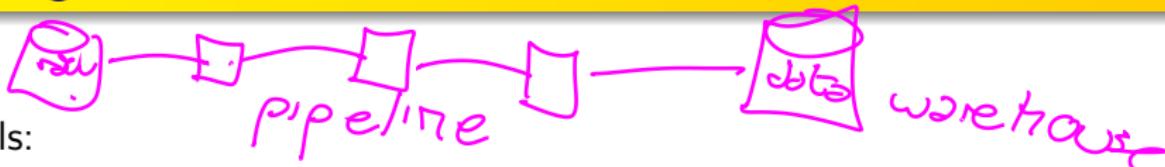
- Strong analytical and problem-solving skills.
- Excellent communication and interpersonal skills.
- Proficiency in programming languages and data processing tools.
- Knowledge of data modeling and database design.
- Ability to work independently and in a team environment.

- Responsibilities:

- Designing, building, and maintaining data pipelines.
- Extracting, transforming, and loading data from various sources.
- Developing data models and database schemas.
- Optimizing data storage and retrieval.
- Collaborating with data scientists and analysts to support data-driven decision-making.
- Monitoring and maintaining data quality.



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GL



Machine Learning Engineer

- Skills:

- Strong analytical and problem-solving skills.
- Excellent communication and interpersonal skills.
- Proficiency in programming languages and machine learning frameworks.
- Knowledge of data modeling and statistical analysis.
- Ability to work independently and in a team environment.

- Responsibilities:

- Developing machine learning models and algorithms.
- Collecting, cleaning, and preprocessing data.
- Training and evaluating machine learning models.
- Deploying machine learning models to production.
- Collaborating with data engineers and analysts to support data-driven decision-making.
- Monitoring and maintaining machine learning models.



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- ✓ Copia*



Data Scientist

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- Responsibilities:

- Collecting, cleaning, and preprocessing data.
- Analyzing and interpreting data to identify trends and patterns.
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DevOps / Site Reliability Engineer

- Skills:

- Strong analytical and problem-solving skills.
- Excellent communication and interpersonal skills.
- Proficiency in programming languages and automation tools.
- Knowledge of software development and IT operations.
- Ability to work independently and in a team environment.

- Responsibilities:

- Automating software development and deployment processes.
- Monitoring and maintaining system performance and reliability.
- Troubleshooting and resolving system issues.
- Collaborating with developers to improve system performance and reliability
- Implementing security best practices.
- Providing support and training to end users.



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- I=CI⇒ In practice Is Code*



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Technical Leader

- Skills:

- Strong technical skills and expertise.
- Excellent communication and interpersonal skills.
- Ability to mentor and coach team members.
- Knowledge of software development methodologies.
- Ability to work independently and in a team environment.

- Responsibilities:

- Providing technical guidance and support to team members.
- Setting technical direction and standards for the team.
- Reviewing code and providing feedback to team members.
- Resolving technical issues and challenges.
- Collaborating with stakeholders and senior management.
- Ensuring technical quality and best practices are followed.



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Team Leader

Skills:

- Strong leadership and management skills.
- Excellent communication and interpersonal skills.
- Ability to motivate and inspire team members.
- Knowledge of software development methodologies.
- Ability to work independently and in a team environment.

Responsibilities:

- 
- Leading and managing a team of software developers.
 - Setting project goals and objectives.
 - Assigning tasks and monitoring progress.
 - Providing guidance and support to team members.
 - Resolving conflicts and issues within the team.
 - Communicating with stakeholders and senior management.
 - Ensuring project deadlines and quality standards are met.



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What is to be a leader? I

- Leading a team is not a role. It is a decision, you could be a **leader** anytime and anywhere.
- Teamwork culture is pretty important. It creates habits, open communication, safety spaces for inclusion.
- Psychological safety is a key point to have an effective team. You could develop technical skills, but it is not enough.
- Hierarchy is very important. Anarchism tends to fail. Hierarchy exists by **status** and **power**.
- In a hierarchy experts lead to make **better decisions**. However, anyone must be careful to not leave people behind.



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What is to be a leader? II

- With crystal communications and clarity on business goals, achievements, the people feel more comfortable to pursuit same goals as a **team**.
- A good leader must think in outcomes more than in outputs. It helps to always bring **business value** over complete tasks.
- Failure is always an option. Learn how to deal with bad moments, not punish, just fix and learn.
- Someones think you born as a leader. Another ones think a leader could be created with the time. Either way, **context** and **self-desire** to growth are vital.
- Make ethical decisions is a key, it leads to take right and **better decisions**.



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What is to be a leader? III

- It is important to always be psychological well-being. You will be more stronger, could help people, and have a better point of view of everything.
- A good leader built trust relationships, also have emotional intelligence to communicate and read the others.
- To develop as a leader one good role are the three C's: Curiosity, Courage, Commitment.



What is to be a leader? III

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Thanks!

Questions?



Repo: <https://github.com/EngAndres/ud-public/tree/main/courses/systems-analysis>

