# ROLES

### Systems Analysis

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2024-III





# Outline

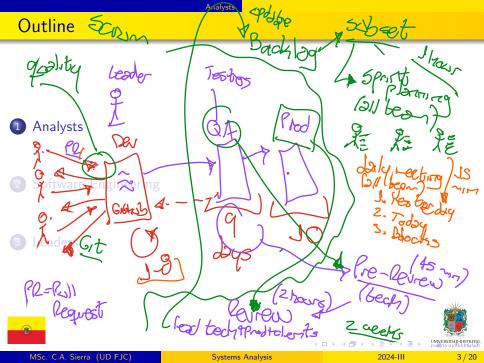
1 Analysts

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:

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- Creating and maintaining project documentation, such as functional specifications and use cases
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- Participating in system testing and user acceptance testing
- Providing support and training to end users







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Analysts

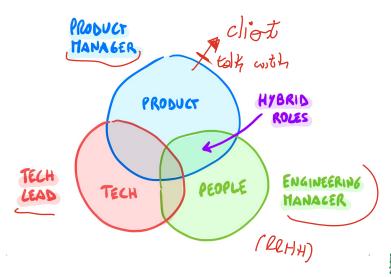
Software Engineering

3 Leaders





# Tech Company Typical Structure







- **Software Developer (Engineer)** has the responsibility to design, code, and test software applications.
- Software Architect has the responsibility to design and implement software solutions.
- Backend Engineer has the responsibility to develop server-side applications and databases.
- Frontend Engineer has the responsibility to develop client-side applications and user interfaces.
- Full Stack Engineer has the responsibility to develop both server-side and client-side applications.
- **Software Tester** has the responsibility to develop test plans, test cases, and test scripts.





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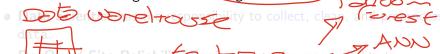




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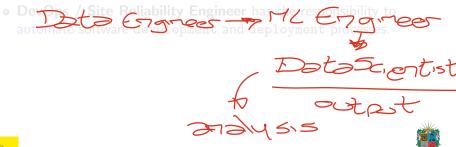
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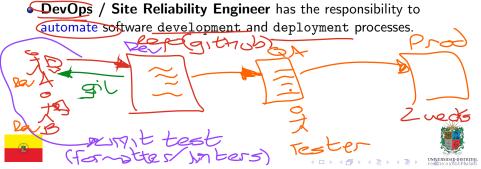


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- Machine Learning Engineer has the responsibility to develop machine learning models and algorithms.
- Data Scientist has the responsibility to collect, clean, and preprocess data.

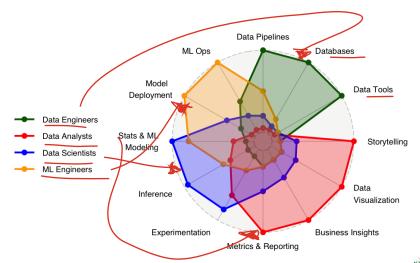




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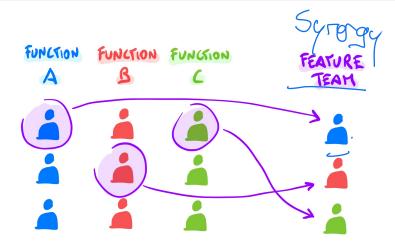
### Data Related Roles







# Feature Teams







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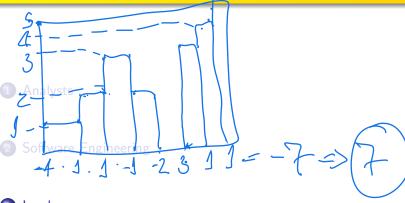
### Soft Skills

- **Soft skills** are personal attributes that enable someone to interact effectively and harmoniously with other people.
- Typical Soft Skills:
  - Communication skills (verbal and written).
  - Teamwork and collaboration.
  - Problem-solving and critical thinking Contest
  - Adaptability and flexibility.
  - Time management and organization.
  - Leadership and management.
  - Emotional intelligence.
  - Creativity and innovation.
  - Conflict resolution.
  - Networking and relationship building.
  - Customer service and client management.





# Outline



3 Leaders





- Technology

# Technical Leader - CTC

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#### 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.

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





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- 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.





Leading a team is not a role. It is a decision, you could be a leader anytime and anywhere.

- Teamwork culture is pretty important of 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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- 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.
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- A good leader built trust relationships, also have emotional intelligence to comunicate and read the others.
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# Thanks!

# **Questions?**



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



