IT engineering map

1. Infrastructure & Operations:

- **Infrastructure**:
  - Manage physical and virtualized hardware resources.
  - Oversee capacity planning and resource optimization.

- **Operating Systems**:
  - Manage and maintain diverse OS platforms.
  - Ensure OS security, stability, and performance.

- **Network**:
  - Design and implement secure and scalable network infrastructures.
  - Monitor and ensure network availability and performance.

- **Cloud**:
  - Manage and integrate various cloud solutions, from public to hybrid models.
  - Strategize and implement cloud migrations.

- **Automation & Deployment**:
  - Implement containerization for application isolation and portability.
  - Orchestrate containers for scalable application deployment.
  - Automate infrastructure tasks and streamline software deployment processes.

- **Security**:
  - Implement cybersecurity measures and proactive threat detection.
  - Ensure adherence to industry and regulatory standards.

2. Software Engineering:

- **Design**:
  - Architect scalable and resilient software solutions.
  - Design intuitive user interfaces and experiences.

- **Development**:
  - Write, optimize, and review application code.
  - Collaborate on code versions and changes.

- **Testing**:
  - Conduct various levels of software testing to ensure quality.
  - Validate software functionality and performance.

- **Deployment**:
  - Implement continuous integration and continuous deployment processes.
  - Monitor and manage applications in various environments.

- **Maintenance**:
  - Ensure software longevity through updates, patches, and documentation.

3. Data, AI, and Analytics:

- **Data Engineering**:
  - Manage the lifecycle of data, from collection to storage.
  - Transform and integrate diverse data sources for analysis.

- **Data Analysis & Modeling**:
  - Extract insights from data through statistical methods.
  - Model data patterns and predict future trends.

- **AI Engineering**:
  - Develop and integrate intelligent algorithms.
  - Ensure ethical use and transparency in AI applications.

- **Business & Product Analysis**:
  - Drive decisions using data-driven insights.
  - Analyze product metrics and user behaviors.