



Subject: Internship Project Proposal

<i>Code Name</i>	PTA_EN_99112_02/02/2026 16.08.57
<i>Date</i>	02/02/2026 16.08.57
<i>Target</i>	Bachelor's Degree - Data Analysis

Host Institution

<i>Host Institution</i>	DigitAlb SH.a
<i>Protocol</i>	99112
<i>Protocol Date</i>	10/07/2025
<i>Country</i>	Albania
<i>City</i>	Tirana
<i>Address</i>	Autostrada Tiranë - Durrës, rruga "Pavarsia" Nr.39, Komuna Kashar, Tiranë Albania, 1057
<i>Website</i>	https://digitalb.al/
<i>Employees Number</i>	350
<i>Contant Person</i>	Ergi Buza
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Project Supervisor

Name and Surname	Ergi Buza
Phone Number	00355692071062
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Internship Project Details

Title	Development and Optimization of SQL Server-Based Data Architecture for Broadcast & Messaging Systems
<p><i>Detailed Description:</i> Context: This project focuses on building a robust database backend to handle high-volume transaction logs from the MDaemon mail system and encryption metadata from the DVB Pre-encryptor.</p> <p>Measurable Objectives: 1. Design a relational schema that reduces query latency for log retrieval by 40%. 2. Implement automated T-SQL scripts for daily data integrity checks and backups. 3. Secure the database against unauthorized access (preventing "Anonymous Logon" scenarios at the SQL level).</p> <p>Tools: Microsoft SQL Server Management Studio (SSMS), T-SQL, SQL Server Agent (for automation), and PowerShell for database-to-system integration.</p>	
Topics	Database Administration & Secure Data Development
Reimbursement of Expenses (YES/NO)	NO
Refund Amount	



<i>Availability for Travel (YES/NO)</i>	YES
<i>Kind of employment</i>	Part time
<i>Duration in months (max 12)</i>	2
<i>Duration in hours</i>	150
<i>Internship Date Start</i>	01/03/2026
<i>Internship Date End</i>	30/04/2026
<i>Number of Open Position(s)</i>	1

Internship Skills

Required Skills: Advanced T-SQL (Stored Procedures, Triggers, and Indexed Views).

Knowledge of Database Security (Encryption at rest, Service Account hardening).

Experience with Relational Modeling (Normalizing data for broadcast metadata).

Ability to integrate SQL Server with external XML feeds (like your Pre-encryptor logs).

<i>Other Skills</i>	Logical Analysis: Translating complex business requirements into efficient table structures. Documentation: Maintaining clear data dictionaries and ER diagrams. Self-Correction: Proactively identifying and fixing deadlocks or slow-running queries.
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