



OSTİM TECHNICAL UNIVERSITY

Digital Transformation Coordination Office (DDK)

Date: July 17, 2026

To Whom It May Concern,

This is to certify that Mr. Yaaqob Alfakih has served as an **Unpaid Intern** at OSTİM Technical University, Digital Transformation Coordination Office (DDK), for a period of one year, from August 1, 2025 to July 31, 2026.

As part of our in-house development culture, OSTİM Technical University established a Software Development Team within the Digital Transformation Coordination Office, composed of skilled and motivated students and staff. The team operated under Scrum methodology principles and adhered to CMMI (Capability Maturity Model Integration) standards to ensure process quality, structured workflows, and continuous improvement.

Within this environment, Mr. Alfakih worked as a developer and team collaborator. He actively participated in sprint planning, task management, and collaborative code reviews, demonstrating a solid grasp of version control, testing, and deployment workflows.

Key Projects and Contributions

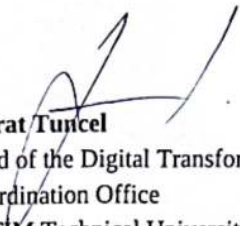
- **RAG Chatbot System (OstimGPT):** Developed core components of the university's locally hosted chatbot, including a web crawler for collecting university website data with data validation and cleaning, source citation support in responses, an in-memory caching system, session management with automated cleanup, a response confidence indicator, monitoring and admin dashboards, a health-check endpoint, a structured diagnostic and logging framework, and a chunk optimization system for document retrieval. Implemented security hardening measures such as request rate limiting, input validation against SQL injection, HTML sanitization against XSS, script injection blocking, per-IP request limits, and secure UUID-based session tracking.
- **Student Application Management System (SAMS) – Application Portal:** Contributed to the university's digital student application platform, developing the Profile Page UI, the Applicant Profile Page, an Internal Notes Panel component, automatic synchronization of form fields with submissions, extended submission models with review fields, a status API endpoint, a configurable Reporting Dashboard, and the migration of language configuration to a separate service using local models.
- **Website Auto-Translation (Odoos):** Developed a locally hosted automatic translation system for the university website using Ollama, including a reusable Ollama client service, a translation job platform with tracking and analytics, an HTML chunking and recombination pipeline, configuration and security settings pages, prompt engineering, rate limiting, multi-language support, and comprehensive testing and documentation.



Throughout his internship, Mr. Alfakih consistently demonstrated initiative, professionalism, and a strong sense of responsibility. His technical skills, adaptability, and commitment to high-quality results made him a valuable member of our department.

We sincerely appreciate his contributions and wish him continued success in his future endeavors.

Sincerely,



Murat Tuncel
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Coordination Office
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