

YUSUF ÇETİN

Software Developer · Backend, AI and Automation

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SUMMARY

Final-year Computer Engineering student at Marmara University (100% English program) building backend, AI and automation products. Over 2 years of professional backend experience in ERP and REST API integrations: production services with Python/FastAPI and PostgreSQL, and regulated e-Document integrations. Lately building products around LLM agents, MCP and workflow automation.

EDUCATION

B.Sc. Computer Engineering (100% English) - Marmara University

2022 - June 2027 (expected) | GPA: 3.70 / 4.00

TECHNICAL SKILLS

Languages & Technologies: Python, FastAPI, Flask, Odoo (ORM, QWeb, Module Customization), PostgreSQL (pgvector), Redis (arq), SQLite, REST API, SQL, XML/UBL, Docker, Git, Linux

AI & Automation: LLM agents (Claude Code, Codex), MCP, RAG (FAISS, BM25, pgvector), Gemini, Groq, Whisper, ComfyUI

Odoo Work: e-Documents (Nilvera, UBL-TR), cheque and promissory-note workflows, TCMB exchange-rate automation, Worldline POS integration (Flask + DLL bridge), portal and Stripe payment modules

Computer Science Foundations: Data structures and algorithms, OOP and design patterns, operating systems, computer networks

Computer Architecture & Digital Design (course and project work): MIPS processor architecture (instruction set, datapath and control unit, pipeline and hazard management, memory hierarchy), MIPS Assembly, Verilog digital design

WORK EXPERIENCE

Co-founder · Software Developer - Hiyu Yazılım Danışmanlık A.Ş., Ankara

Nov 2025 - Present (part-time, alongside university)

- Co-founded a venture for Odoo ERP implementation, customization and accounting consulting; moved client processes onto Odoo.
- Designed the software architecture and custom Odoo modules end to end.
- Beyond the technical work, handled scoping, proposals and client management.

Software Developer - Rasard Teknoloji ve Ticaret Ltd. Şti., Istanbul

Jun 2024 - Sep 2025

- Worked on backend development for over a year using Python and the Odoo ORM.
- Built Nilvera REST API e-Document integrations (e-Invoice, e-Dispatch, e-Ledger) from scratch on Odoo v18; implemented UBL-TR compliant XML generation and transmission.
- Extended the e-Invoice module to support every optional field in the regulation (dispatch/contract references, serial-lot tracking, country of origin, etc.), increasing compliance and reducing manual data entry.

PROJECTS

LLM Premiere MCP - MCP, UXP, WebSocket, ffmpeg, Whisper

An MCP system with 55 tools that lets Claude Code and Codex drive Adobe Premiere Pro: analyzes footage (silences, retakes, word-timed transcripts), writes the edit as a JSON plan compiled into a Premiere sequence, and drives Premiere live (import, frame review, zooms, captions, export).

WW Finans Editorial Agent - Python, Groq, ComfyUI, SQLite, Telegram, Instagram API

A local pipeline that finds finance and crypto news, fact-checks it, turns it into carousel posts and publishes on approval. Every story needs 2-3 independent sources or generation stops; nothing reaches Instagram without a Telegram approval.

swfactory (Multi-Agent Coding Orchestrator) - Python, Codex CLI, Claude Code, DeepSeek, pytest

An orchestrator that splits roles between Codex and Claude on one repository: splits tasks into parallel waves with no file conflicts, resumes from a handoff file when a provider runs out of quota; the state machine is tested with fake providers.

Nexamind (AI-Powered Personal Exam Coach) - Python, FastAPI, PostgreSQL (pgvector), Redis

A RAG and TTS based learning platform built by a four-person student team. Backend contributions: Gemini-powered RAG/image processing/text-to-speech clients, personalized exam generation, and Redis-backed asynchronous task workers (arq).

LEADERSHIP & ACTIVITIES

- Chair of the Board - Marmara İlerleme Club (2025 - Present)
- Board Member - MACSEC Club (2023 - 2024)

LANGUAGES

Turkish (Native) • English (B2)