

Nazım Hikmet Şasi

Software Engineering Student | Backend & Full-Stack Developer
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SUMMARY

Software Engineer specializing in scalable back-end systems and AI pipelines using .NET 8/9 (C#, ASP.NET Core) and Python; deployed 4 production applications during technology park internships with 600+ automated test assertions. Proficient in Clean Architecture, CQRS, Docker, and CI/CD within cross-functional agile teams.

EXPERIENCE

Backend Developer Intern (Voluntary Internship), 09/2026 - Present
ULUTEK Technology Development Zone Management Inc., Bursa, Turkey

- Collaborated with an agile engineering team to architect an enterprise RAG assistant crawling 75 corporate portals and indexing 100 vectorized chunks in ChromaDB via multilingual-e5 embeddings with 15% overlap.
- Deployed a self-hosted, privacy-first 8B-parameter local LLM via Ollama, exposing a 6-route REST interface to client web widgets.
- Evaluated LLM response accuracy against a 25-question domain-specific benchmark suite, quantifying retrieval precision and generation quality.

Backend Developer Intern (Mandatory Internship), 07/2026 - 09/2026
ULUTEK Technology Development Zone Management Inc., Bursa, Turkey

- Kiosk & Digital Signage Portal:** Partnered with cross-functional stakeholders to engineer an ASP.NET MVC admin dashboard across 150+ files (17 entities, 69 actions) with a 9-endpoint REST API and SignalR live command channel.
- Prototyping Workshop Engine:** Delivered a 21-entity .NET 9 workflow application driving a 6-stage lifecycle with 5-role RBAC authorization, establishing 282 automated test cases spanning 41 files.
- URL Shortener Microservice:** Implemented database and service layers for a high-traffic link management service with API-key authentication, redirection, and telemetry logging covering 25 controller actions.

EDUCATION

B.Sc. Software Engineering (4th year), 09/2023 - Present
Manisa Celal Bayar University, Faculty of Technology, Manisa, Turkey

PROJECTS

OmniCampus - Smart Campus / GIS Platform, 2026

.NET 8, PostgreSQL, PostGIS, React 19, Docker, github.com/nazimhikmetsasi/OmniCampus

- Constructed a GIS REST API featuring 42 endpoints and 18 MediatR handlers following Clean Architecture and CQRS.
- Incorporated JWT authentication, RBAC, Unit of Work, and Result patterns; accelerated throughput using Output Caching and Rate Limiting.
- Established a GitHub Actions CI/CD pipeline executing 19 continuous regression tests on every push.

TRAVEX - AGV/AMR Fleet Coordinator (OGTY 2026), 2026

Python, FastAPI, Pytest, Hypothesis, Simulation and algorithm lead

- Formulated a fail-safe kinematic routing algorithm and per-tick safety interlock (approx. 9 ms execution time).
- Eliminated collisions completely: 117→0 across 12 benchmark scenarios and 598→0 in a 150-AGV stress test.
- Validated deterministic correctness through 12,000 randomized state runs using Hypothesis property-based testing, authoring 70 assertions with zero invariant violations.

Video Anomaly Detection and Behavior Analysis Platform, 2026

Python, PyTorch, Kafka, Spark, Docker, github.com/nazimhikmetsasi/videoAnomaliTespiti

- Developed a multi-camera computer vision pipeline detecting falls and restricted-zone intrusions across 4 concurrent video feeds.
- Achieved 26.3 FPS throughput via YOLO pose estimation and BoT-SORT ReID tracking with uninterrupted 8+ hour runtime.
- Boosted anomaly classification F1 score from 0.41 to 0.67 by coupling a deterministic rule engine with a Temporal Convolutional Network (TCN) over Kafka/Spark streaming.

SKILLS

Programming Languages			
C# / .NET	■■■■■	Python	■■■■■
SQL	■■■■■	TypeScript	■■■■■
JavaScript	■■■■■	Java	■■■■■
Category	Technologies & Tools		Proficiency
Web & API Stack	ASP.NET Core Web API, ASP.NET MVC, .NET 8/9, EF Core, FastAPI, SignalR, WebSocket, React 19, Next.js, Node.js, Tailwind CSS		■■■■■
AI, ML & Data Systems	PyTorch, OpenCV, YOLO, BoT-SORT, RAG, ChromaDB, Ollama, Pandas, NumPy, PostgreSQL, PostGIS, MS SQL, MongoDB, Redis, Kafka, Spark		■■■■■
Architecture & Tools	Clean Architecture, CQRS (MediatR), Repository / Unit of Work, SOLID, TDD (xUnit, Pytest, Hypothesis), Docker, Git, CI/CD, Linux		■■■■■

LANGUAGES

Language	Proficiency & Usage	Level
English	Upper-Intermediate (B2), technical documentation, professional reading and writing	■■■■■