

Borjan Ladinski

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EDUCATION

University American College Skopje

2023 – 2026

BSc Computer Science and Information Technology | GPA: 9.81/10, cum laude

Skopje, North Macedonia

OPIT — MSc Applied Data Science and AI

Sep. 2026 – Present

EXPERIENCE

Backend AI Engineering Intern

Jun. 2026 – Sep. 2026

FlyRank AI

Remote

- Built FastAPI services and REST APIs for AI-powered applications; developed PostgreSQL and Redis-backed infrastructure using Docker.
- Implemented RAG workflows using Pinecone embeddings, LLM tool calling, and Model Context Protocol (MCP) tools.

Machine Learning Engineering Intern

Sep. 2026 – Present

FlyRank AI

Remote

- Engineered search-performance features for content opportunity scoring from anonymized Google Search Console data using Python and SQL.
- Evaluated ranking models with holdout validation, separating future outcomes from model inputs to reduce leakage.

Full Stack Engineer (Freelance)

Feb. 2026 – Oct. 2026

DermAneta

On-site

- Developed and deployed a production Django appointment platform with CaSys cPay integration, verified payment-state handling and automated tests.

Full Stack Engineer (Freelance)

Mar. 2026 – Sep. 2026

Ambrozija Farm

Remote

- Developed backend functionality and product-catalog workflows for a client web application.

PROJECTS

AI Codebase Intelligence | Python, FastAPI, RAG, Pinecone, PostgreSQL, Redis

- Built hybrid BM25 and vector retrieval with Reciprocal Rank Fusion and cross-encoder reranking for repository search.
- Exposed grounded codebase-search capabilities through read-only MCP tools and FastAPI endpoints.

Autonomous Code Debugging Agent | Python, LLM Tool Calling, LangChain, Pydantic, Pytest

- Developed an agent to inspect code, search repositories, apply controlled patches and verify fixes through tests.
- Resolved 3 of 3 seeded Python debugging cases in saved traces (8.67 average steps; 1.33 average patch attempts).

TECHNICAL SKILLS

Languages & Backend: Python, FastAPI, SQL, PostgreSQL, Redis, Celery, Docker, Django

Applied AI: LLM Agents, RAG, MCP, Pinecone, Hybrid Retrieval, Reranking, LangChain, Pydantic, Pytest

ACHIEVEMENTS

1st Place, UACS Business Innovation Hackathon (2026) — Led a six-person team.