Andrej Angelovski

AI and software engineer · applied AI, knowledge systems, operational tools

angelovskiandrej5@gmail.com +389 78 508 002 Skopje, North Macedonia

Remote · EU and US-East overlap



LINKS

andrejangelovski.vercel.app
Portfolio · 37 projects, 31 with real screens

mailathon-web.vercel.app

makedonskadrzava.com

holterhythm.vercel.app

app.fairbeat.com

SKILLS

Applied AI

LLM pipelines · RAG · Knowledge graphs · Evaluation protocols · Guardrails

Languages

Python · TypeScript · SQL

Product

React · Next.js · Node · FastAPI · Postgres · MongoDB · Cloudflare Workers · Electron

Infra

Azure · S3 · GitHub Actions · Vercel · Docker

Testing

pytest · Vitest · Playwright

SPOKEN LANGUAGES

English	C1, Cambridge CAE
German	Proficient
French	
Macedonian	Native

I design and ship applied AI for operators, clinicians and researchers: retrieval that cites its sources, LLM pipelines that verify before they act, and operational tools with an audit trail. Two products live, thirty-one working systems.

EXPERIENCE

AI and decentralized knowledge graph engineer

FEB 2026 – JUN 2026

Umanitek · Zug, Switzerland · remote

- Built an open-source social media collection layer scaled to 113 sources.
- Designed a three-stage LLM pipeline (triage, analysis, final review) with cross-provider fallback and quota-aware retry; a pre-adjudicator encoder stage projected to cut model cost about 4×.
- Calibrated the risk-scoring model and fixed score drift between direct and reified RDF layers.
- Delivered RDF knowledge graphs (N-Triples, Blazegraph, PROV-O, SKOS) and a 131-KPI observability framework that uncovered an 86.2% false-positive rate.

Python · asyncio · pytest · Gemini · OpenAI · RDF/SPARQL · Blazegraph · S3 · GitHub Actions

Full-stack engineer, contract

JAN 2026 – APR 2026

Fairbeat, digital music marketplace · remote

- Lead committer (199 of 346 commits) on the Next.js 16 marketplace: beats, drum kits, sample packs, beat battles, checkout, licences and invoices on Stripe.
- Built the activity feed with privacy controls, notifications, the opportunities and applicants flow, and an admin dashboard with country-level analytics.
- Shipped the audio player, explore and map views, onboarding and authentication. Live at app.fairbeat.com.

Next.js 16 · React 19 · MongoDB · next-auth · Stripe · Ably · S3

Founder, Mailathon · Co-founder, MakedonskaDrzava.com

MAR 2025 – NOW

- Mailathon: brand-aware email platform where a versioned knowledge graph ("Brand Brain") verifies every AI-generated campaign against brand voice, catches hallucinations and gates sending; MCP and OpenAPI interface. Live with a demo account.
- MakedonskaDrzava: Macedonian digital library with retrieval-grounded answers over about 300 books and 280 authors, multi-language, CDN delivery. Live and public, 13.5k Instagram followers.

EDUCATION

Ss. Cyril and Methodius University, Skopje
Computer Science and Engineering
Thesis: wake-aware wind power forecasting

PUBLICATIONS

CIIT 2023
Day-ahead forecasting for solar and wind electricity production using machine learning.

CIIT 2018
New Youth Initiative for Advanced STEM Education.

RECOGNITION

Primatijada 2023 · silver medal, best paper in informatics

Techstars Startup Weekend · winner, May 2024

ADAC Automotive Challenge · 2nd place, June 2024

HEC Paris Incubator with biox-ai · 2024

TUM.AI hackathon · medical track

Microsoft Power BI · PL-300

EXPERIENCE, CONTINUED

AI engineering intern, German governmental scholarship
JUL 2024 – DEC 2024

Uniper Renewables · Düsseldorf

- Internal HSSE chatbot on Azure with Python and the OpenAI API; Power App for inspections; text-to-voice onboarding avatar prototype.

Machine learning intern
JAN 2023 – APR 2023

Macedonian Academy of Sciences and Arts · Skopje

- Solar and wind power forecasting with statistical and ML methods; published at CIIT 2023.

EARLIER

FEB – MAY 2023	**Data engineering intern, Loka**, Skopje — ETL pipeline for California real-estate analysis.
SEP – DEC 2022	**Data analysis intern, A1 Telekom Austria**, Skopje — sales budget analysis; OCR for invoice digits.
SEP – DEC 2021	**Web development intern, Sols**, Skopje — React, Django; client meetings with Dutch and German customers.
MAY 2021 – SEP 2022	**Open-source contributor**, solaris.games.

SELECTED SYSTEMS

AirGo Control Tower
REACT · THREE.JS · NODE · SQLITE

Control tower for an airport-parking operator with a 3D digital twin, event-sourced commands and audit rows.

Holterhythm
REACT · CLOUDFLARE WORKERS · ELECTRON · PYTHON

Physician-led ECG review and reporting workstation, about 320 tests, public demo on synthetic data.

Wake-aware wind power forecasting
PYTHON · PYWAKE · FLORIS

Bachelor thesis on 134-turbine SCADA data with a WebGL wake explorer.

Reviewer Brief
TYPESCRIPT

GitHub App that posts one structured pre-flight brief per pull request.

All four, with screens, at andrejangelovski.vercel.app.