ARISTEA GJOKTHOMI

Software & Data Engineer

Tirana, Albania · arisgjokthomi@gmail.com · github.com/Aristxa

Software and data engineer in Tirana with an MSc in Information Systems in Economics. I build retrieval and AI systems, data analyses and production websites. Currently at INSTAT (IT & Microdata Department) and running my studio, Novaris Labs.

EXPERIENCE

Sep 2026 – Present
Tirana

Intern, IT & Microdata Department · INSTAT, Institute of Statistics

Jun 2025 – Present
Tirana

Founder & Developer · Novaris Labs

- Run a web studio end to end: scoping with clients, design, development, deployment, SEO and marketing.
- Delivered an e-commerce shop (Next.js, Payload CMS) for the official Jasmine Dr distributor in Albania, with catalogue, checkout and an admin panel.
- Delivered identity, photography and a bilingual website for a metal workshop, with Google Business Profile and structured data.
- Built ten live concept sites, six with real-time 3D, used as working demos in client outreach.

Oct 2023 – Mar 2024
Tirana

Software Management & Quality Assurance Intern · Posta Shqiptare sh.a.

- Supported IT project implementation and software management activities.
- Helped improve internal IT infrastructure workflows.
- Assisted in developing and testing applications for internal use.

Oct 2023 – Jan 2024
Tirana

Web Development Bootcamp · CyberTirana

- Web development with Python and Django; built a personal project applying object-oriented programming.
- Earned the Cisco Networking Academy Python certification (Dec 2023) with excellent results.

Apr 2023 – Aug 2023
Tirana

Mendix Developer · Ikons

- Developed and deployed low-code applications in Mendix Studio Pro, in individual and team projects.
- Integrated data sources, automated workflows and improved app scalability.

SELECTED PROJECTS

Asistenti Fiskal · MSc thesis · Applied AI · Retrieval · 2026 · aristeaaa-assistent.hf.space
Albanian tax-law question answering where every claim cites the article that supports it, or the system refuses to answer. *47% best article-level retrieval (28/60) on the first public Albanian tax-law QA benchmark.*

Efficiency of Albanian Banks · Research · Operations research · 2026 · aristxa.github.io/bank-efficiency-ndea
A Dynamic Network DEA of nine Albanian commercial banks, 2021–2023, showing where each bank loses efficiency. *5 of 9 banks on the efficient frontier in all three years.*

CoolCity Tirana · Research · Geospatial ML · Optimisation · 2026 · github.com/Aristxa/Cool-City
Where should Tirana plant its next 1,000 trees? A cooling model from satellite data picks the sites that cool the most residents per euro. *+37% more cooling than the best simple rule, same €300,000 budget.*

FinScope · Data engineering · Forecasting · 2026 · aristeaaa-finscope.hf.space
Financial analytics built entirely from free SEC EDGAR filings: a star-schema warehouse, five forecasting models and anomaly detection. *5 forecasting models compared with walk-forward backtests and Diebold-Mariano tests.*

Suela's Cosmetics · Client · E-commerce · Novaris Labs · 2026 · suelascosmetics.com
An online shop for the official Jasmine Dr distributor in Albania, built from scratch with an admin panel the owner runs herself. *43 products in 10 categories, 68 pages in the sitemap, delivered in 2 months.*

Punime Hekuri · Client · Identity · Website · Novaris Labs · 2026 · punimehekuri.al
Identity, photography and a bilingual website for a Tirana metal workshop working since 2004. *2 weeks from brief to a live site in Albanian and English, on Google.*

EDUCATION

2024 – 2026
MSc, Information Systems in Economics
Faculty of Economy, University of Tirana
Thesis: Asistenti Fiskal, citation-bound question answering over Albanian tax law. Defended September 2026.

2021 – 2024
BSc, Business Informatics
Faculty of Economy, University of Tirana

SKILLS

Languages	Python, JavaScript, TypeScript, SQL, R, PHP
AI & retrieval	RAG, FAISS, BM25 / hybrid search, Embeddings (bge-m3), Claude API, Evaluation design
Data & ML	ETL pipelines, Star schemas, Time-series forecasting, scikit-learn, TensorFlow, DEA / linear programming
Web	React, Next.js, Django, Three.js, Payload CMS
Delivery	Git & GitHub, Vercel, Hugging Face Spaces, SEO & structured data, Mendix
Certifications	Programming in Python (Cisco Networking Academy, Dec 2023); Introduction to Programming Using Java (Tirana ICT Academy, Jan 2022)
Spoken	Albanian (native), English (fluent), Italian (intermediate)