

Florent Latifi

Software Engineer

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SUMMARY

Software engineer with a BSc in Computer Science and Engineering from UBT and MSc studies in Data Science and Artificial Intelligence. I build full-stack applications, data pipelines and machine-learning tools, backed by automated tests and CI. I created Pragu, an open-source tool that finds accessibility barriers in Android apps.

EDUCATION

MSc in Computer Science and Engineering (Data Science and Artificial Intelligence) 10/2026 – Present
UBT – University for Business and Technology, Prishtina, Kosovo

BSc in Computer Science and Engineering 10/2023 – 10/2026
UBT – University for Business and Technology, Prishtina, Kosovo

Thesis (JavaSmell) presented at the 15th UBT Annual International Conference on Computer Science and Engineering, 10/2026.

EXPERIENCE

Intern, ProCredit Bank, Kosovo

PROJECTS

Pragu – Accessibility auditor for mobile apps In development · [GitHub](#)
TypeScript, Node.js, Kotlin, Android (UiAutomation, adb), React Native, Jetpack Compose, Vitest, JUnit, GitHub Actions

- Built a Kotlin agent and Node.js CLI that read what TalkBack sees in any Android app over adb, without changing the app.
- Implemented WCAG 2.2 rules (unlabelled controls, images and fields, hidden or stateless controls, text contrast measured from screenshot pixels, touch-target size) on a platform-neutral model.
- Measured each rule’s precision and recall on labelled screens; CI fails any change that moves a score.
- Designed an offline HTML report that pins each barrier on the screenshot, with who it affects and the fix for each framework.

Gjurmë – News-coverage platform for Albanian-language media Live · [gjurm.vercel.app](#) · [GitHub](#)
Python, FastAPI, SQLAlchemy, PostgreSQL, Claude API, React, TypeScript, Docker, GitHub Actions, Vercel

- Built a pipeline that collects RSS feeds from 19 outlets in Kosovo, Albania and North Macedonia, removes duplicates in four layers and groups reports of the same event into stories with TF-IDF clustering tuned for Albanian.
- Added LLM tagging with Claude: schema-validated JSON, a check that drops names not in the source, and a daily cost cap.
- Benchmarked a year of synthetic data (365,000 articles); index and query fixes made entity queries up to 4.5× faster.
- Wrote 500+ tests (pytest on real PostgreSQL, Vitest, Playwright with axe), run in CI with strict typing and security scans.

CineTaste – Movie and TV recommender that explains every pick Live · [cinetaste-rho.vercel.app](#) · [GitHub](#)
Python, FastAPI, SQLAlchemy, PostgreSQL, pgvector, Redis, React, TypeScript, Playwright, Docker

- Designed a content-based ranker that combines interpretable taste features with 384-dimension vectors searched in pgvector (HNSW), then diversifies the slate, so every pick comes with a reason the user can check.
- Built an offline evaluation on held-out MovieLens ratings; reweighting the ranker raised hit rate@20 from 0.155 to 0.254.
- Implemented secure sign-in (short-lived JWTs, rotating refresh tokens in httpOnly cookies, email verification, rate limiting) and 350+ automated tests, including Playwright and axe checks.

JavaSmell – Code smell detection and safe refactoring for Java BSc thesis · [GitHub](#)
Python, scikit-learn, tree-sitter, FastAPI, React, TypeScript, Docker, GitHub Actions

- Trained random-forest and gradient-boosting models on 26 code metrics that beat published detection rules on 4,534 expert-labelled samples from 512 Java repositories (MCC 0.49–0.72 vs 0.23–0.58).
- Built AST refactorings (Guard Clauses, Extract Method, Introduce Parameter Object) offered only if they compile with javac.
- Released it as a multi-arch Docker image, a CLI that writes reviewable git patches, and a GitHub Action with SARIF output.

SKILLS

Programming languages: Python, TypeScript, JavaScript, Kotlin, SQL, HTML, CSS

Frontend: React, Vite, TanStack Query, Zustand, React Router, Tailwind CSS, Recharts

Backend: FastAPI, Node.js, SQLAlchemy, Alembic, Pydantic, REST APIs, JWT authentication

Mobile: Android (Kotlin, Jetpack Compose, UiAutomation, adb), React Native (Expo), TalkBack

Data & AI: scikit-learn, NumPy, pgvector, recommender systems, TF-IDF clustering, LLM APIs (Claude), model evaluation

Databases: PostgreSQL, Redis

Tools & DevOps: Git, GitHub Actions, Docker, Gradle, pytest, Vitest, Playwright, axe-core, JUnit, Vercel, Render, Neon

Concepts: layered architecture, CI/CD, automated testing, architecture decision records, query optimisation, accessibility (WCAG 2.2)

LANGUAGES

Albanian (native) · English (B1–B2) · Serbian (B1)