Ibrahim Kakaev



Full-stack developer Java / Spring Boot · Angular · 6-month final-year internship

From January 2027 · Available immediately, earlier start possible

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LinkedIn | GitHub | Portfolio | Root-Me

PROFILE

2nd-year Master's in Software Engineering. I build complete applications, from the Spring Boot or Rust API to the Angular interface, delivered tested: continuous integration, security analysis and a live demo. Strong interest in application security.

TECHNICAL SKILLS

Languages	Java 21, TypeScript, JavaScript, Rust, Python, C++, PHP, SQL
Back-end	Spring Boot, Spring Security, JPA, Flyway, Jakarta EE, Node.js, Express.js, REST API, WebSocket, SSE
Front-end	Angular (signals, standalone components), RxJS, React
Data	PostgreSQL, pgvector, MongoDB, MySQL, SQLite
DevOps	Linux, Git, Docker, Docker Compose, GitHub Actions, CodeQL, Trivy, AWS
Testing, methods	JUnit, Testcontainers, Jest, Vitest, PyTest | UML, MVC, Scrum, Jira
AI and security	RAG, embeddings (ONNX), LLM APIs; JWT, OWASP, pentest (Nmap, Burp Suite, Metasploit)

PROJECTS

2026 · ongoing — **Rampe, automated web accessibility pre-audit (RGAA 4.1.2) for SMEs** · TypeScript, Angular, NestJS

- A crawler (axe-core) maps each defect to its RGAA criterion, explains the fix and tracks progress; tagged PDF report, scheduled scans, manual audit of the 106 criteria.
- Crawler hardened against SSRF (Chromium without network, egress proxy against DNS rebinding), organisation isolation tested on every API route; about 500 unit, 70 integration and 75 end-to-end tests.

Demo: rampe-demo.duckdns.org | Code: github.com/IbrahimKakaev/Rampe

2026 — **Sésame, AI-powered enterprise document search** · Java, Spring Boot, pgvector, Angular

- An LLM answers questions about PDFs and cites its sources, without ever receiving a passage the user is not allowed to see: filtering by groups in the SQL query, before any call to the model.
- Isolation tests for every user-document pair on every route, leak tests on the request sent to the LLM, immediate revocation; documented threat model.
- JWT with rotation and replay detection, audit log; 24 out of 24 sources retrieved in the evaluation; CI with CodeQL and Trivy.

Demo: ibrahimkakaev.github.io/Sesame | Code: github.com/IbrahimKakaev/Sesame

2026 — **NetWatch IDS, real-time network intrusion detection** · Rust, axum, Angular

- Capture (libpcap) and detection engine in Rust: decoding of Ethernet, VLAN, IPv4/IPv6, TCP and UDP; detection of port scans, SYN floods and abnormal throughput over a sliding window, with bounded memory.
- Angular dashboard over WebSocket (live traffic map), SQLite history; Rust and Angular tests in CI.

Demo: ibrahimkakaev.github.io/NetWatch-IDS | Code: github.com/IbrahimKakaev/NetWatch-IDS

2026 — **CERISoNet, real-time social network** · Angular, Node.js, Socket.IO, MongoDB

- News feed, likes, comments and real-time presence; PostgreSQL for accounts, MongoDB for posts.
- 269 tests (API, security, real time), CodeQL and Lighthouse in CI, single-command launch with Docker Compose.

Demo: ibrahimkakaev.github.io/CERISoNet | Code: github.com/IbrahimKakaev/CERISoNet

2025 — **Pentest and offensive cybersecurity** · Kali Linux, Burp Suite, Metasploit

- 5 VulnHub machines compromised, 7 TryHackMe modules and 10 Root-Me challenges; 13 reports written (reconnaissance, exploitation, privilege escalation, remediation).

Reports: ibrahimkakaev.github.io/en/reports.html | Root-Me: MIK_Sparrow

PROFESSIONAL EXPERIENCE

2024 · 2 months — **Full-stack developer, internship** · DSI Grand Albigeois, Albi

- Web search interface for the town hall's reception secretaries, used in production.
- Structuring of data from scanned documents and database design.

PHP, JavaScript, MySQL

EDUCATION

2024 – 2027 — **Master's degree in Computer Science, Software Engineering** · Avignon Université

2021 – 2024 — **Bachelor's degree (Licence) in Computer Science, Web Technology option** · INU Champollion, Albi

2019 – 2021 — **Baccalauréat, Computer Science and English specialities** · Lycée Lapérouse, Albi

OTHER EXPERIENCE

2020 – 2024 — **Youth activity leader and team lead** · CROUS, Grand Albigeois, Handiligue

2024 – 2026 — **General and logistics worker, temporary work** · Action, Leclerc Drive, Basic-Fit, Domino's

LANGUAGES AND INTERESTS

Languages	French (native) | English (B2) | Russian (fluent)
Interests	Automation, weight training, hiking, music