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MOUSSA TALLIH

SOFTWARE & AI ENGINEER · BRUSSELS

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PROFILE

Computer Science graduate (ULB), completing a Master's in engineering (ir.) at VUB. Hands-on across the stack: Java and Python backends, REST APIs, SQL, a generative AI chatbot (RAG) and CI/CD with Docker. Shipped a feature to production working directly with non-technical stakeholders. Looking for a first full-time software or AI role, available now.

EXPERIENCE

Arqaam · Software Developer Intern — Feb 2025 – May 2025

Delivered a billing feature end to end, now in production with 50+ users: requirements with the non-technical founders, architecture, REST API, schema, Spring Boot and Angular.

Stack: JAVA · SPRING BOOT · HIBERNATE · ANGULAR · POSTGRESQL · MAVEN

Hayolabs · Student Software Engineer — Sep 2023 – Sep 2024

Legal AI chatbot using retrieval-augmented generation (RAG) over Belgian law, in the first wave of generative AI. Built the document pipeline (scraping, cleaning, ingestion), the Django REST backend and the Vue.js frontend.

Stack: PYTHON · RAG · PROMPT ENGINEERING · DJANGO · VUE.JS · GITLAB CI

Onem · Student Java Developer — Jul 2023 – Aug 2023

End-to-end test automation for a Spring Boot application in a Scrum team, BDD scenarios.

Stack: CYPRESS · TYPESCRIPT · CUCUMBER · JIRA

ULB · Teaching Assistant, Programming Languages (BA1) — 2022 – 2023

Invited by a former professor to teach alongside him: exercise sessions in C++ for first-year students, individual help and grading.

Genius Generation · Volunteer workshop designer — Ongoing

Design and run public tech workshops for families in Brussels: intro to AI, 3D printing, programmable Lego.

PROJECTS

Master's thesis · VUB — 2025 – 2026

Full CI/CD pipeline (build, test, deploy) with Docker on Linux for a C++/CUDA multi-sensor fusion system on an NVIDIA AGX Orin.

Stack: GITHUB ACTIONS · DOCKER · LINUX · C++ · CUDA

Document extraction · Personal — 2026

Scanned language textbooks to vocabulary sheets, via Mistral OCR and JSON-schema output.

Stack: PYTHON · MISTRAL API · JSON SCHEMA

Swapify · VUB — 2024 – 2025

Second-hand marketplace. Led the architecture, owned the backend, set up the frontend. Django Ninja · Vue.js · PostgreSQL

Traffic prediction · VUB — 2024 – present

Traffic prediction on large-scale data with distributed processing. Scala · Apache Spark

AI course projects · ULB — 2023 – 2024

Search (A*, Minimax), Bayesian networks on medical data, Q-learning agents. Python · NumPy · pyAgrum

Multiplayer board game · ULB — 2023

Networked board game in C++, team of 8, SFML rendering and raw sockets. C++ · SFML · Sockets

SKILLS

AI	LLMs · RAG · Prompt engineering · Tool calling · MCP · Mistral API · Ollama · Claude Code
DATA	SQL · PostgreSQL · Pandas · Apache Spark · Web scraping · Data ingestion
BACKEND	Java · Spring Boot · Hibernate · Python · Django · FastAPI · REST APIs
FRONTEND	Angular · Vue.js · TypeScript · HTML/CSS
DEVOPS	Docker · CI/CD · GitHub Actions · GitLab CI · Maven · Git · Linux · Shell
SECURITY, QA	OAuth2/OIDC · RBAC · Threat modeling · Cypress · Cucumber/BDD
OTHER	C++ · Scala · Erlang · CUDA · Agile/Scrum · UML

EDUCATION

MSc Computer Science, burgerlijk ingenieur (ir.) · VUB — 2024 – present

Software Engineering & Software Languages: architectures, security, multicore, web tech, functional programming, big data.

BSc Computer Science · ULB — 2021 – 2024

Algorithms, data structures, artificial intelligence, OOP (Java, C++), operating systems, networking, UML.

French (native) · English (professional) · Dutch (basic)