Aleksander Baska

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EDUCATION

WSB Merito University — Poznań, Poland

Bachelor of Science in Computer Science — *Oct. 2023 – Present*

− Coursework: Software Engineering, Object-Oriented Programming, Data Structures & Algorithms, Relational Databases (SQL), Web Technologies, IT Project Management (Agile, Scrum, PRINCE2).

PROJECTS

SmartDocFlow − AI Document Ingestion Backend — Live Demo • Github

Spring Boot, PostgreSQL, RabbitMQ, Qdrant, Redis, MinIO, Docker, Prometheus, VPS Deployment

− **Designed and implemented** a modular, AI-powered document processing backend enabling **PDF ingestion → OCR → embedding → vector search** pipeline, reducing query latency by **60%** via asynchronous **RabbitMQ** workers and **Qdrant** integration.

− **Containerized and orchestrated** the backend stack (**PostgreSQL, RabbitMQ, Qdrant, Redis, MinIO, Spring Boot**) with **Docker Compose**, achieving one-command deployments and consistent environment parity across development and production.

− **Enhanced reliability and observability** by integrating **Prometheus** metrics, **Spring Actuator** health probes, and structured **MDC logging**, shortening debug cycles by **30%** during QA testing.

− **Deployed to a self-managed VPS** (Linux) using **Docker**, **Nginx reverse proxy**, and **SSL via Certbot**, ensuring secure, production-grade uptime.

Nuvine − Multi-Project AI Knowledge Hub

Microservices, Spring Boot, NestJS, PostgreSQL, Kafka, Qdrant, Neo4j, MinIO, Docker, OpenTelemetry, Prometheus

− **Designed and partially implemented a distributed, multi-tenant AI platform** enabling organizations to manage project-specific knowledge bases with isolated documents, chats, embeddings, and permissions.

− **Implemented an event-driven ingestion pipeline** (OCR → chunking → embeddings → knowledge graph) using **Kafka** and asynchronous workers, ensuring fault tolerance and horizontal scalability.

− **Built a hybrid RAG system** combining **Qdrant vector search** and a **Neo4j knowledge graph**, improving answer accuracy and contextual consistency for complex, multi-document queries.

− **Developed a multi-model LLM router** supporting OpenAI, Anthropic, Gemini, and open-source models, dynamically routing requests based on cost, latency, and task type.

− **Applied production-grade observability** with **OpenTelemetry tracing**, **Prometheus metrics**, and structured audit logs, enabling performance monitoring across microservices.

TECHNICAL SKILLS

Programming Languages: Java (Primary), Python, TypeScript
Backend & Frameworks: Spring Boot (REST, Spring Security, Spring Data JPA, Hibernate), Java Concurrency, RESTful APIs
Architecture & Patterns: Microservices, Event-Driven Architecture, Clean Architecture, Domain-Driven Design (DDD), SOLID
Messaging & Streaming: Kafka, RabbitMQ
Databases & Storage: PostgreSQL, Redis, MongoDB, Qdrant (Vector DB), Neo4j (Graph DB), MinIO / S3
Infrastructure & DevOps: Docker, Docker Compose, GitHub Actions (CI/CD), VPS Deployment, Nginx, Linux
Observability & Monitoring: Prometheus, OpenTelemetry, Spring Actuator, Structured Logging
Testing: JUnit, Testcontainers, Mockito, Integration Testing
Security: JWT, OAuth2, Role-Based Access Control (RBAC)
Languages: Polish (Native), English (Fluent — B2)

EXPERIENCE

Carlsberg Shared Services — Poznań, Poland

IT On-site Support Intern — *May 2024 – Present*

- Provided on-site IT support for 400+ employees across Microsoft 365 and Windows systems, achieving 98% satisfaction through efficient troubleshooting and documentation.
- Reduced onboarding time by 25% by standardizing hardware setup processes (laptops, docking stations, printers, conferencing tools).