Zoran Repić

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Education

Faculty of Technical Sciences   *Novi Sad, Serbia*
B.*Sc. Software Engineering and Information Technologies.*   *2023 – exp. 2027*

Grammar School Jovan Jovanović Zmaj   *Novi Sad, Serbia*
Talented Students in Informatics Grammar School   *2019 – 2023*
Diploma Vuk Stefanović Karadžić

Experience

Genairate Technologies   *Remote*
Fullstack Engineer / ML Engineer   *Jun. 2025 – Present*

- Developed agentic services, including data preprocessing, extraction, ingestion, and hybrid retrieval with re-ranking.
- Worked with cloud infrastructure on AWS and Azure for backend services and scalable pipelines.
- Optimized prompts for large context extraction processes.

Nimbus Tech   *Novi Sad, Serbia*
Part-Time ML Engineer   *Jun. 2025 - Present*

- Developed a RAG-based chatbot for domain-specific Q&A using a predefined knowledge base.
- Implemented semantic chunking, embeddings, and retrieval pipelines to ensure accurate, context-aware responses.
- Leveraged cloud services for scalable storage and retrieval.

Projects

- **Key-Value Search Engine (NoSQL - Engina) -** *Contributed to a high-performance key-value search engine focusing on SSTable structure, block management, read/write paths, and LRU caching.*
- **Travelling Salesman Problem – Genetic Algorithm -** *Contributed to a TSP solver using genetic algorithms, optimizing convergence and performance with custom crossover, mutation, and selection strategies.*
- **Python-based PDF Search Engine -** *Built a search engine using PageRank for document ranking, supporting AND / OR / NOT queries.*
- **Data Scraping and Mailing Application -** *Python tool for scraping company data and automating email workflows in a collaborative environment.*
- **React.js Websites with Firebase Integration -** *Full-stack web applications with real-time database synchronization using Firebase.*
- **Checkers Game with AI Opponent -** Python implementation featuring Minimax with alpha-beta pruning, heuristic evaluation, transposition tables, and Zobrist hashing.

Skills

Technical Areas: Software Architecture, Data Structures and Algorithms, Backend Systems, Full-Stack Development, Probabilistic Data Structures, Machine Learning & AI
Programming Languages: Python, JavaScript, Java, C++, Go
Cloud: AWS, **Azure**
Machine Learning & AI: End-to-end **RAG** pipeline development, document **ingestion** pipelines (text extraction, **structuring**, semantic **chunking**, upsertion), hybrid retrieval systems (semantic + **BM25**) with reranking
AI Tools & Frameworks: Pinecone, **OpenSearch**, AWS Bedrock, **LangChain**, Pydantic, CrewAI