

Katarina Dimić

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EDUCATION

School of Electrical Engineering, University of Belgrade 2022 – Present
Software Engineering Belgrade, Serbia
GPA - 9.41/10.00

PROFESSIONAL EXPERIENCE

Microsoft 03/2025 – 07/2025
Software Engineering Intern Belgrade, Serbia

- Implemented retrieval algorithms including BM25 and vector search
- Utilized Apache Spark for large-scale data processing
- Evaluated and fine-tuned embedding models for similarity retrieval
- **PySpark, Scala, SparkNLP, SparkML, MLFlow**

OTHER EXPERIENCES


Undergraduate Teaching Assistant 10/2024 – Present
School of Electrical Engineering, University of Belgrade
Algorithms and Data Structures, Programming, Computer Technologies


Google Developer Student Club 09/2023 – 10/2024


- GDSC Flutter School (2023)
- GDSC IT Team Active Member (2024)

PROJECTS

Code Search Engine 2025
Developed an embedding-based code search engine using Hugging Face transformer model fine-tuned on the CoSQA dataset.
Python, Sentence Transformers, Fine-tuning, Vector search

RAID Implementation  2025
Implemented RAID0, RAID1, RAID01, RAID4, RAID5 structures for xv6 OS

Multithreaded kernel  2024
Developed OS kernel for embedded RISC-V systems. Implemented thread and memory management, synchronization, time-sharing and preemption.
C, C++, Assembly

ChatApp  2024
Multi-room real-time chat app with user authentication
JWT, React, Bootstrap, Firebase auth, Socket.IO

HACKATHONS

Levi9, 5 days in the cloud 11/2024
Node.js web application development and deployment on AWS
EC2, RDS, API Gateway, SNS, Lambda

Digihack, Fon Digital & Informatika 10/2024
Contributed to the development of a smart hospital prototype.
AI and Digital Twin technologies. Python, Keras, TensorFlow

IBM TechXchange Hackathon 09/2024
AI Attorney - Generative AI tool for legal consultations utilizing IBM WatsonX

SKILLS

C/C++, Java, Python, Scala, SQL, Data Structures and Algorithms, OOP, ML, NLP, HTML, CSS,
Languages – Serbian (Native), English, Italian