

# Katarina Dimić

 dimicc.k@gmail.com  0644287443  Belgrade, Serbia  LinkedIn

## EDUCATION

---

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

## 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

**Dighack, 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