

# Petar Đorđević

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## EDUCATION

### University of Belgrade - Faculty of Mathematics

#### PHD IN COMPUTER SCIENCE

2024 - present

**Specialization:** Big Data Engineering & Distributed System Design

**Coursework:** Data Engineering, Database Management, Engineering of Distributed Systems, Advanced Software Design and Engineering, Concurrent Data Structures and Algorithms

#### MS IN COMPUTER SCIENCE

2022 - 2024

**Thesis:** Developing an efficient and scalable data pipeline using Apache Airflow and Apache Spark

**Coursework:** Machine and Deep Learning, Cryptography, Advanced Data Structures and Algorithms, Software Verification, Project Management

## WORK EXPERIENCE

### UNIVERSITY OF BELGRADE | TEACHING ASSISTANT

October 2022 - present

- **SOFTWARE DEVELOPMENT** (IV year course)  
Teaches basic modern software development techniques and design patterns and provides experience in their application through teamwork. Taught using C++, Qt and Catch2
- **TOOLS FOR SOFTWARE DEVELOPMENT** (IV year course)  
Teaches modern tools and framework for project building and maintenance. Taught through C++, Git, Docker, GitLab CI/CD, GDB, CMake, Clang, Terraform
- **PROGRAMMING LANGUAGE DESIGN** (III & V year course)  
Teaches various programming paradigms and patterns. Taught through C++, Python, Go
- **DIGITAL IMAGE AND SOUND PROCESSING** (V year course)  
Teaches programmatic editing of image, video and sound. Taught through Python, Audacity and ffmpeg.

### QCERRIS | DATA & ML ENGINEER / TECH LEAD

April 2022 – June 2024

- **STRATEGIC TECHNOLOGY LEADERSHIP:** Led the adoption of modern data technologies, transitioning from Airflow to AWS services (Glue, SQS, Lambda) and championing Databricks integration to enhance data processing and innovation
- **DATA ARCHITECTURE AND MODELING:** Designed database architecture and data models to isolate Machine Learning data in Snowflake and support both ML and Backend application needs.
- **MENTORSHIP AND KNOWLEDGE SHARING:** Mentored Data Engineers, taught Spark (PySpark) company-wide, and authored blog posts and case studies to promote a data-driven culture and thought leadership.
- **EFFICIENCY AND QUALITY:** Enhanced pipeline efficiency through parameterization and developed Data Quality DAGs to ensure data accuracy post-pipeline execution.
- **INFRASTRUCTURE AS CODE:** Spearheaded the use of Terraform for infrastructure as code, streamlining setup across AWS, Snowflake, Databricks, and other critical components.
- **WORKFLOW OPTIMIZATION:** Streamlined workflow orchestration in Airflow by modularizing DAGs, simplifying DAG management, and boosting overall pipeline performance and reliability.
- **COLLABORATIVE PROBLEM SOLVING:** Collaborated across teams to identify and resolve complex data engineering and machine learning challenges.

## SKILLS

**Programming Languages:** C++, Python, SQL, Go

**Data and ML Development:** DataBricks, Spark, Airflow, MLFlow, Snowflake, PostgreSQL, MinIO, Great Expectations

**Technology:** Git, Docker, Terraform, Pulumi, Kubernetes, AWS

**Spoken Languages:** Serbian (native), English (proficient), German (proficient)