DRIN PREKAJ

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About Me

I am an aspiring computer scientist with a significant interest in the intersection of computer science and mathematics. My interest lies particularly in the administration and interpretation of data within quantitative fields such as finance and banking, investment management, the health industry, and the natural sciences. I'm interested in the development of high-performance and low-latency systems.

Education

University of Pristina   **Oct. 2022 – Jun. 2025**
Bachelor of Science in Computer Science   *Pristina, Kosovo*

American School of Kosovo   **Sep. 2017 – Jun. 2021**
High School/Gymnasium   *Pristina, Kosovo*

Relevant Coursework

- Data Structures
- OO Programming
- Calculus & Analysis I, II
- Database Theory
- Data Security
- Numerical Analysis I, II
- Probability Theory
- Computer Architecture
- Analysis of Algorithms
- Statistics
- Web Server Programming
- Mobile Programming

Projects

Operating System | *C, C++, Java, Assembly*   **Ongoing**

- Developing a fully-fledged, independent operating system complete with a kernel and bootloader.
- Manually developing system functions that order to manage memory & system resources, impose security and access policies, schedule and multiplex processes and threads, launch and close user programs dynamically, and provide a basic user interface and application programmer interface.
- Designing and implementing core functionalities like process management, memory management, and device drivers.
- Creating a file system for data storage and retrieval.
- Developing system libraries for common operations like I/O, string manipulation, and memory management.
- Implementing services such as networking protocols and inter-process communication.

Professional Portfolio Website | *HTML, CSS, GitHub*   **Ongoing**

- Designing and developing a personal portfolio website to showcase projects and skills.
- Utilizing HTML and CSS to create responsive and visually appealing web pages.
- Incorporating GitHub for version control and project management.
- Implementing best practices for SEO to improve site visibility and traffic.

Technical Skills

Languages: Java, Python, C/C++, Assembly, R, SQL, TeX, HTML/CSS
Developer Tools: VS Code, Eclipse, MongoDB, Redis, Apache Hadoop, Android Studio
Technologies/Frameworks: Linux, Jenkins, GitHub, JUnit, WordPress

Licenses & Certifications

Data Engineering   **Jul. 2023 – Dec. 2023**
UNDP & AUK Training Institute   *100 hours*

- A graduate of the Digital Skills for All (DS4A) program, an initiative by the United Nations Development Program (UNDP) in collaboration with RIT Kosovo (A.U.K), the Ministry of Local Government and Administration, and financially supported by the Ministry of Foreign Affairs and International Cooperation of the Italian Republic. This program, designed to enhance ICT skills among youth in Kosovo, provided me with 100 hours of intensive training in Data Engineering.
- Training was conducted in a hybrid model, with 60% in-person and 40% online sessions, and all courses were taught in English. Through this initiative, I developed essential digital skills that bridge the gap between the targeted population group and the market needs of the digital economy, contributing to economic growth and social cohesion.

ICT & Digital Skills Training on Big Data Analytics   **Jan. 2023 – Jun. 2023**
EU's ICT for Kosovo's Growth   *300 hours*

- A graduate of the "ICT & Digital Skills Training on Big Data Analytics" program, organized by the EU's ICT for Kosovo's Growth initiative. This comprehensive 300-hour training program focused on developing technical analytic expertise while ensuring conversance in various other domains. Recognizing the necessity of advancing beyond descriptive analytics, the course addressed the complexities of information requirements for decision-making and strategic development aimed at enhancing profitability, performance, and competitiveness. Throughout the program, I built expertise in advanced analytics, data mining, and predictive modeling, with a strong emphasis on Apache Hadoop and other open-source software tools.
- The aim of the course was to introduce trainees to critical big data management techniques and analytical tools. Upon completion, I gained the knowledge and skills to build data solutions that integrate seamlessly with other systems, implement advanced data science concepts such as machine learning and inferential statistics to solve critical business problems, and influence corporate decision-making. Additionally, the program equipped me to participate successfully in data science competitions, articulate analytics as a core strategy, transform data into actionable insights, and develop statistically sound and robust analytic solutions. I also learned to evaluate constraints on the use of data and assess data structure and lifecycle.

Leadership & Extracurricular

Kennedy-Lugar Youth Exchange and Study (YES) Program   **Sep. 2020 – Jun. 2021**
Alumni   *El Paso, Texas, USA*
- As a participant in the U.S. Department of State's Kennedy-Lugar Youth Exchange and Study (YES) program, I was selected through a rigorous, merit-based process to spend a full academic year in the United States. Although I won this opportunity, the global outbreak of COVID-19 meant that the program was held remotely for the 2020-21 academic year.
- During the selection process, I demonstrated my potential as a youth ambassador, aiming to promote mutual understanding and cultural exchange by forming lasting relationships with a host family and community. This experience would have involved living with an American host family, attending high school, and engaging in various community service and civic education activities. Through this, I would have gained valuable insights into U.S. society and values while educating my American peers about my home country and culture.

American Leadership Experience (ALEX) Program   **Apr. 2022 – May 2022**
Alumni   *Washington DC, USA*
- Participated in a prestigious one-week civic education workshop sponsored by the U.S. State Department in Washington DC, attended by 50-60 delegates from 20 countries. The workshop focused on fostering civic engagement, democratic processes, and active citizenry.
- Engaged in intensive discussions and activities, collaborating with international peers to analyze and deliberate on various aspects of civic education. This included examining real-world case studies illustrating successful models of civic participation and democratic reform.
- Facilitated and participated in structured discussions addressing global perspectives on democratic governance, human rights, and civic responsibilities. Contributed insights from diverse cultural and national backgrounds to enrich group dialogues and broaden perspectives.
- Developed skills in critical thinking, cross-cultural communication, and consensus-building through interactive workshops and simulation exercises. Networked with leading experts and practitioners in civic education, gaining valuable insights into emerging trends and best practices globally.
- Actively engaged in post-workshop initiatives to promote civic awareness and democratic values within local and international communities, applying practical applications of theoretical concepts discussed during the workshop.

Mobility International USA (MIUSA) Program   **Apr. 2022 – May 2022**
Alumni   *Eugene, Oregon, USA*
- A one-week workshop with delegates engaging in activities and discussions aimed at raising awareness, promoting inclusivity, and fostering understanding of disability-related issues. The workshop focused on promoting accessibility and universal design principles. Participants learned about the importance of designing physical spaces, digital platforms, and communication materials that are inclusive and accessible to individuals with disabilities