Milan Nikolic

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Education

Military Technical Academy   Belgrade,Serbia
Bachelor's degree in information technologies   October 2025
Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Web Development, Databases, Introduction to Cryptography, Networking.

Military High School   Belgrade, Serbia
High School Diploma   September 2021

Projects

DevFlow Full Stack Next.js Application

- Implemented Next.js routing and authentication/authorization workflows
- Established backend features with Next.js, implemented real-time data using webhooks, and worked with MongoDB for data storage.
- Developed a community-based question and answer system with voting, tagging, and profile interaction features
- Designed reputation and badge systems to enhance user engagement.
- Integrated OpenAI for automated question answering.

Uber Ride Full Stack Application

- Built the server-side using Express.js, implementing RESTful APIs to manage ride requests, user authentication, and real-time ride status.
- Designed and managed the PostgreSQL database, focusing on data efficiency for storing user profiles, ride histories, payment details, and real-time ride tracking.
- Optimized database queries, improving overall application performance by approximately 30% through indexed searches.
- Developed the user interface using React, enabling users to book rides, view ride details, and track drivers in real time.

GSM encryption (A5/1, A5/2, Kasumi algorithms)

- Researched GSM (Global System for Mobile Communications) encryption algorithms, focusing on A5/1, A5/2, and Kasumi.
- Investigated the role of security through obscurity in early GSM encryption and its divergence from Shannon's principle of cryptography.
- Evaluated the impact of these algorithms on global mobile security, covering 6+ billion users worldwide at its peak.

Skills & Interests

Programming: C++, C, Java, JavaScript, SQL, Python, Computer Networking.
Design: Figma, Adobe XD.
Languages: Fluent English, Conversational Russian, Native Serbian.

Leadership

Web Hosting and Infrastructure Optimization Lead
Small Webflow Agency

- Managed efforts to reduce hosting and domain costs by 70%.
- Projected and maintained web server and hosting infrastructure, ensuring high performance and reliability for client websites.