











# Darjan Drugarinović

Software Engineer with 2 Years' Experience

## Personal details

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-  Niš, Serbia

## Skills

-  Proficient in designing system structures and project organization
-  Ability to identify, analyze, and solve complex problems
-  Strong organizational skills
-  Experienced in both front-end and back-end development
-  Leadership: Ability to lead and motivate a team




## Education

Faculty of Electronic Engineering,  
University of Niš

Master of Science, Computer Science,  
Computer Software Engineering

GPA: 10

## Languages

- Serbian 
- English 
- Romanian 

## Profile

I am a solution-oriented software engineer with 2 years' experience specializing in full-stack development. My technical proficiency includes React on the frontend and Node.js on the backend, but because of my ability to quickly learn, I can easily adapt to new technologies.

## Experience

Sep 2022 - May 2024 **Software engineer**  
Cubic Motion DSP

Currently, I am working on four projects:

- React component library
  - Implemented components that are used across various projects, improving UI consistency and reducing development time
- Video player core
  - Unified two distinct libraries into a single project, refactored and reorganized the code that was in development for 2 years
  - Broke down complex logic into smaller pieces and extracted common logic into shared modules
  - Updated the project configuration by replacing Babel, Rollup, Webpack with Vite
  - Added TypeScript support
- React video player
  - Successfully set up the project structure
  - Implemented complex logic related to the timeline
  - Added a variety of custom hooks
- Unified Video
  - Working with multiple instances of video player
  - Implemented a lot of features that utilize video data

While working at Cubic, I have been in constant contact with designers and developers from around the world on a daily basis. I was responsible for code reviews, projects integration and planning activities

Personal project **Full stack developer**  
Spremi Ispit

I have developed an educational platform that provides students with unrestricted access to learning resources. Currently, the platform serves 2,000 students from the Faculty of Electronic Engineering. However, I am in the process of expanding its reach to all 30,000 students across the university.

I designed the entire system:

- Backend structure
- Frontend structure
- Entities
- Database schema
- APIs
- Setup a VPS hosting
- Defined app deployment through Github Actions
- Create documentation about running the app in both local and hosting environments, with or without Docker.

I plan to implement this platform in every faculty in Niš by the end of 2024. *Please check out [spremiispit.com](https://spremiispit.com)*

## Personal projects

**Product sales tracking** - Developed a full-stack application for a customer that was used to keep track of product sales. This was my first solution-oriented application to meet customer needs. While developing, I improved my knowledge in React, PHP (Codeigniter), MySQL.

**Generative AI model for video suggesting system** - Developed a Generative AI model that can curate unstructured video data, tagging and categorizing videos into a searchable database structure, with emphasis on creating a user-friendly interface for video search and retrieval.

**Text summarization by using AI models** - I scraped 500 newspaper articles and summarized them in both Serbian and English to understand the essence of the articles, done with JavaScript and Python, Puppeteer, HuggingFace, spaCy, NLTK, sumy, pysummarization.

**Video super resolution** - I have implemented a system that creates high-resolution videos from low-resolution videos using super resolution AI models.

**Sign language communication system** - Developed a system that translates sign language into spoken language and vice versa, enhancing communication for individuals with special needs. Implemented with Python and CV2.

**Taxi dash** - Collecting information from car sensors to monitor vehicle and driver performance. Implemented with React + Typescript and MQTT.

**Social Network Bots** - I have implemented bots using Puppeteer for publishing posts on social media platforms, Instagram and Facebook, to increase product sales for my own business.

**Cryptocurrency Wallet** - I created a cryptocurrency wallet application with React Native.

**Hoops VR** - I created a virtual reality game using Babylon.js.

## Other

**Nignite Summership** - Developed full stack application to get familiar with basic concepts: dependency injection, migrations, code testing, data flow, lint, clean code. While acquiring these concepts, I got familiar with: Swagger, Jest, Redux, Redux Thunk, SQL Server, ASP.NET Core 2.2, Entity Framework Core.

**JSWorld Conference** - I attended the JavaScript World Conference held in Amsterdam in 2023.

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