



## Aleksa Vujosevic

Senior Software engineer

Graduated Computing and Information Technology BSc at the University of Natural Science of Montenegro. Reliable and willing to learn, looking for a good opportunity. Having experience in full stack, but with main focus is back-end development.

✉ vujosevic.aleksa404@gmail.com

📍 Podgorica, Montenegro

🌐 [linkedin.com/in/aleksa-vujosevic](https://www.linkedin.com/in/aleksa-vujosevic)

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## Technical Expertise

Proficient in: Python, Django Rest Framework, FastAPI, Docker

Familiar with AWS Services: RDS, S3, EC2, Lambda, Cognito, ElastiCache

Familiar with Google Cloud Services: Cloud Run, Cloud SQL, BigQuery, Cloud Storage, Cloud Functions

Familiar with frontend frameworks: React, VueJS

## Work Experience

### Software engineer

8/2025 - Present

[Bytek AI](#)

*Martech of DatrixGroup | Contract*

### Software engineer

10/2024 - 8/2025

[Vega IT](#)

*Software development | Outsourcing*

### Software engineer

06/2023 - 08/2024

[Coinis Ltd](#)

*Adtech company*

### Software engineer

02/2022 - 06/2023

[GoldBear Technologies](#)

*Software development | Outsourcing*

## Frontend developer and marketing strategist

01/2020 - 08/2021

AGEA International

Foreign Exchange | Investment

## Projects

### Marketing prediction platform

*Python, Django REST, PostgreSQL, Google Cloud Services*

*Description:*

Developing new features for AI marketing prediction platforms across multiple repositories and packages written in python. The platform uses privacy-safe first-party data to predict customer intent, conversion likelihood, and (predicted) lifetime value. It then turns those predictions into actionable signals you can activate across channels (e.g., bidding/paid media, CRM, and marketing automation).

*Responsibilities:*

- Implemented integrations with multiple third-party marketing APIs in Python (vendor SDKs); handled authentication, pagination, rate limits, retries, and error monitoring.
- Working on a Python wrapper package to simplify building and generating BigQuery SQL queries.
- Rewriting parts of existing codebase, updating to ETL pipelines

### Personalized chat assistant for brands

*Python, FastAPI, PostgreSQL, RAG, AWS Services*

*Description:*

Developing a multi-tenancy platform. The platform is built so various brands can use it either for internal company usage or for their end users. Brands implement their “voice of speech” by uploading internal files to the knowledge base and configuring multiple instructions passed together to the LLM provider with chat input. Platform is LLM agnostic so LLM provider can easily be changed or used simultaneously with one tenant for different services for eg, text generation, image processing or speech to text functionality. UI and functionalities were built to look similar to ChatGPT.

*Responsibilities:*

- Project setup, Postgres Row Level Isolation setup for single db multi tenant implementation
- Configuring Keycloak, integration with Keycloak API
- Developing chat functionalities for logged in and anonymous users

## University platform

*Python, Django Rest Framework, Vue2, PostgreSQL*

*Description:*

Working on a multi-tenancy project in the edu-tech industry, focused on bug fixing and feature enhancements. The platform supports universities, colleges and similar educational institutions by increasing their visibility and simplifying the presentation and enrollment of their programs and opportunities. It also helps students by providing access to various courses, job opportunities and social connections. The platform's multi-tenancy architecture ensures that each institution can have a customized isolated environment while sharing the same core infrastructure.

*Responsibilities:*

- Setting up new tenants using django tenant package and configuring their subdomains on DigitalOcean platform
- Troubleshooting and resolving bugs across the frontend, backend, and CI/CD pipelines to ensure smooth functionality and performance.

## Advertiser and Publisher platforms

*Python, Django Rest Framework, FastAPI, AWS S3, PostgreSQL*

*Description:*

Maintaining current projects and developing new features for the Advertiser and Publisher platform. The solution is designed to support online advertising by connecting advertisers, who provide content, with publishers supplying web traffic for this content. In this ecosystem: the Advertiser Platform enables companies (advertisers) to create, manage, and optimize ad campaigns. This platform allows advertisers to upload ad content, define target audiences, and monitor campaign performance. Publisher Platform empowers content publishers (websites, apps, etc.) to earn revenue by displaying ads. Publishers offer ad space and drive user traffic to these ads, contributing to overall campaign engagement. One key feature of the platform was integrating with third-party APIs to handle various aspects of campaign management and data storage, enhancing the scalability and efficiency of the system. Additionally, the platform was designed to collect statistics data from a Snowflake database, analyzed via a dedicated FastAPI service that leverages pandas and numpy for advanced data manipulation.

*Responsibilities:*

- Integrated multiple external services and applications via APIs to enable efficient data exchange, enhancing the platform's ability to fetch and store campaign data and performance metrics seamlessly.
- Architected and developed REST APIs using Django Rest Framework and FastAPI.
- Implemented authentication mechanisms using 2FA and Google Authenticator

## Interactive course platform

*Python, Django Rest Framework, PostgreSQL*

*Description:*

The objective was to develop a dynamic, user-centric course platform designed for diverse learning styles. This platform offers multiple types of courses, including video tutorials, curated video collections, and interactive, quiz-style content, catering to a wide range of user preferences and educational goals. Key integrations included Vimeo for seamless video streaming, Stripe for secure payment processing, and SCORM for compatibility with industry-standard learning management systems, enabling versatile content delivery.

*Responsibilities:*

- Designed efficient, scalable data models to store information on courses, users, and transactions
- Designed and implemented APIs using Django Rest Framework to handle course creation, management, and user interactions
- Developed a secure payment integration with Stripe, enabling easy course purchases and subscription options.
- Integrated Vimeo's API for reliable video streaming, ensuring smooth playback and user experience.

## Competition platform for education

*Python, Django Rest Framework, Digitalocean (App Platform, Spaces), Django Unfold Admin, PostgreSQL*

*Description:*

The platform was developed as a tool for organizing and managing math competitions. Users from various schools and educational organizations use this platform to register and manage teams for competitions, categorized by grade and skill level. Key functionalities included the ability for professors to create multiple team applications, track and manage invoices, and handle financial transactions associated with competition rounds. A major component of the project focused on customizing the admin panel using Django Unfold Admin to streamline complex workflows. This customization allowed administrators to generate, track, and manage transactions, invoices, applications, and team standings. The platform was hosted on DigitalOcean for reliable scaling and data storage.

*Responsibilities:*

- Developed features allowing professors to create applications, enroll teams by grade and category, and manage team entries for various competition rounds
- Implemented functionality for generating invoices and tracking payments
- Designed a balance management system where each application has its balance, ensuring accurate tracking of funds deposited by professors and automatic deduction at the end of rounds
- Deployed the platform on DigitalOcean's App Platform, leveraging Spaces for secure and scalable file storage, enabling document uploads, receipts, and other important records

## Other Projects

### Fitness app

07/2024 - 10/2024

*Django, PostgreSQL, Graphene-Django, Digitalocean, Django Unfold*

- Leading backend development for fitness mobile app build using GraphQL and Graphene-Django
- Developing features allowing fitness influencer to create workouts with exercises
- Implementing In-app purchase verification
- Creating complex admin panel using Django Unfold package,
- Push notification system

### Math League competition platform

07/2024 - 10/2024

*Django, PostgreSQL, Digitalocean, Django Unfold*

- Developed features allowing professors to create applications, enroll teams by grade and category, and manage team entries for various competition rounds
- Implemented functionality for generating invoices and tracking payments
- Designed a balance management system where each application has its balance, ensuring accurate tracking of funds deposited by professors and automatic deduction at the end of rounds
- Deployed the platform on DigitalOcean's App Platform, leveraging Spaces for secure and scalable file storage, enabling document uploads, receipts, and other important records
- React and shadcn/ui on front

### Red Cross of Montenegro

05/2022 - 07/2024

*Django, PostgreSQL, AWS*

- Custom software solution for internal usage built in Django admin using UI package
- Volunteer management service, social services information system, maintenance and further development
- Enable tracking warehouse items and workers, managing user and organization level permissions

### Partour

05/2020 - Present

*Startup - [partour.me](https://partour.me)*

- Co-founder on startup project for gamified AR tour guide
- AR.js, AR.js Studio