



Floralb Xhelaj

An enthusiast specialized in web-app development with Angular & .NET Core framework, solving real-world problems using engineering skills with passion for friendly software design, solid architecture, best practices and documentation.

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EXPERIENCE

Freelancer— Software Engineer

SEPTEMBER 2022 – PRESENT

- Aspen Search Engine

Represents a web-scraping system that collects and filter data for Air Conditioners or Heat Pumps.

1. Implemented dynamic filtering form using NgRx to display different filter panels.
2. Implemented frontend caching technique using IndexDB.
3. Deployed frontend using AWS S3 Buckets and backend using Amazon Elastic Beanstalk.
4. Setup web-scraping example using Selenium Automation Framework.

Coders SHPK, Albania— Software Engineer

FEBRUARY 2022 – PRESENT

- Matriculation Management System

Represents a system that determines high-school students eligible to enroll public universities.

1. Architect frontend using Nx workspaces and SSR, thus providing higher scalable infrastructure.
2. Implement base CRUD functionality using NgRx component-store and standalone components (lazy-loading, import & export excel).
3. Got the opportunity to learn NgRx Store by implementing User authentication flow and providing a centralized store for easier accessibility to user data.
4. Implement Role-based access control functionality using Guards, Directives, Pipes in frontend and ASP.NET Identity in backend.
5. Setup frontend CI/CD pipelines using Azure Cloud Services.

- Courier Management

1. Built frontend application skeleton using enterprise project structure.
2. Implement CRUD operations using Presentational - Container pattern.
3. Gained knowledge of the NgRx component-store library to simplify unidirectional data flow.

- eTax – Case Management Module

Represents a workflow engine and decision engine to automate business processes.

1. Gained knowledge of Business Process Modeling Notation (BPMN) approach for modeling the steps of a planned business process.
2. Practical experience using Nx to simplify micro-frontends architecture using “Module Federation”.
3. Designed and developed feature to implement dynamic form builder and renderer.
4. Developed API endpoints to persist user forms data using CQRS pattern.

Used technologies: Angular, ASP.NET Core, Jira, Azure Cloud, Oracle RDBMS, Node.js.

ASystems, Albania — Software Developer

AUGUST 2020 – FEBRUARY 2022

- DVR Document Module

CRM Module in which the client creates a DVR Document template and can instantiate documents for different institutions.

1. Designed and developed API to persist dynamic and static DVR Document content in a multi-tenant MongoDB environment.
2. Gained knowledge of MongoDB .NET API and Azure Blob Storage to store static files.
3. Implemented versioning logic to be able to upgrade or rollback the document template among multiple versions.
4. Implemented major feature to render dynamic configured input control forms and user guidance on configuring dynamic forms.

- Internal Survey

1. Internal project to create and manage surveys and analyze respondents answers.
2. Implemented feature to display respondent’s answers and automate correction based on answers template.
3. Automation of email notifications using Hangfire as a background job scheduler.
4. Codebase refactoring and migration to newer version of Angular.

- Fitblast API

1. Developed Fitblast API (mobile game) to persist user data and personal progress during the game.
2. Gained knowledge of the Firestore .NET API for non-relational data and Firebase Authentication to manage users authentication.

Used technologies: Angular, ASP.NET Core, MongoDB, Firebase, Azure Cloud, SQL Server.

Soft&Solution, Albania— Software Developer

MARCH 2019 – AUGUST 2020

- e-Albania
 1. Government platform for promoting electronic services for citizens, businesses, and state administration.
 2. Designed and developed SOAP web services for A2A (application-to-application) communication and interfacing.
 3. Database maintenance using stored procedures and Profilers to monitor query performances using SQL Server.
 4. Maintaining and upgrading existing systems that monitor workflow steps for e-Albania user's applications.
- “Banesat sociale”
 1. State system to provide housing option for people across the country.
 2. Database maintenance and creating stored procedures to automate some of the application's workflow steps.
 3. Maintaining existing workflow module.

Used Technologies: ASP.NET MVC, SQL Server, Razor, Bootstrap4, jQuery.

EDUCATION

Master of Science – Computer Science

Faculty of Natural Sciences, University of Tirana - Albania

2020 – Present

Bachelor – Computer Science

Faculty of Natural Sciences, University of Tirana - Albania

2017 - 2020
