

# Alexandru Fera

 alexandrufera.com |  contact@alexandrufera.com |  Alexandru Fera |  AlexFera

## SKILLS

---

**Programming Languages** : C#, SQL (Microsoft SQL Server, PostgreSQL), JavaScript/TypeScript, HTML/CSS , Rust  
**Frameworks** : ASP.NET Core, Entity Framework Core, Azure DevOps, MediatR, IdentityServer, Vue.js, Angular, Blazor  
WebAssembly, Apache Kafka, Elastic stack (ELK), Playwright, Memlab  
**Tools** : GIT / TFS, Visual Studio, VSCode, JetBrains Rider, Docker, Podman, Azure DevOps, RabbitMQ, Redis  
**Languages** : Romanian, English, Spanish

## EXPERIENCE

---

### Adobe

May 2024 – Present

#### Senior Engineer

Remote

- Developed a tool written in TypeScript to identify memory leaks in Adobe Express using a solution combining Playwright, CDP Protocol and Memlab.
- Automated heap snapshot collection and analysis through Playwright tests and the CDP protocol, storing results in a PostgreSQL database.
- Created dashboards in the VUE 3 app to visualize memory leaks and retainer chains, helping pinpoint the root cause of leaks using Memlab.

### RealPage Inc.

June 2023 – May 2024

#### Senior DotNet Developer

Remote

- Implemented a solution using Apache Kafka to stream data to the clients, significantly improving performance of the existing solution
- Crafted the necessary YML files to package our consumers and producers into Kubernetes pods and deploy the artifacts to Amazon EKS
- Wrote integration tests using the Testcontainers library and applied static code analysis to catch issues at build time and maintain a consistent code style.
- Worked on creating multi-stage build pipelines to package and release our code using Azure DevOps
- Developed and maintained new web components for the Angular front-end application including pagination and sorting

### Salade2Fruits

November 2022 - June 2023

#### Senior DotNet Developer

Remote

- Designed and implemented a generic solution for filtering, sorting and pagination on the back-end API, that used Entity Framework together with Dynamic LINQ to generate the appropriate queries on the PostgreSQL database
- Worked together with the team in an Agile methodology to plan and implement new features for the company's ERP system
- Migrated core features of the ERP system from the desktop, Windows Forms, to the web, ASP.NET MVC with Angular

### Stiona Software

May 2020 – November 2022

#### Senior DotNet Developer

Remote

- Migrated multiple SPAs written in JavaScript with VUE 2 and Webpack to VUE 3 with TypeScript and Vite
- Created an alternative proof concept for an existing VUE SPA in Blazor WebAssembly
- Designed and implemented a document management system from the database schema to UI. Used Azure Blob storage for storing the files. Applied clean architecture principles, with clean code practices like separation of concerns, DRY, and also command and query pattern with MediatR
- Led the software design and the building of multiple web applications using Vue.js and Bootstrap 4 for front-end and ASP.NET Core for back-end

- Designed and implemented a document management system from the database schema to UI. Applied clean architecture principles, with clean code practices like separation of concerns, DRY, and also command and query pattern with MediatR

## **Equiniti Group**

*Senior DotNet Developer*

November 2017 – May 2020

Bucharest, Romania

- Designed and implemented the front-end for a finance site using Kendo UI and ASP.NET MVC
- Implemented REST back-end APIs using WCF for communication and SQL Server for data storage
- Written acceptance tests using SpecFlow with Selenium in C#
- Built a message broker for processing card payments using NServiceBus
- Designed and implemented a module that generates PDF files from Microsoft Word Templates that contain email merge fields by leveraging C# reflection and the Open XML SDK

## **Eminus Software**

*Team Lead / DotNet Developer*

March 2013 – October 2017

Bucharest, Romania

- Contributed to the Microsoft Application Insights SDK Labs by fixing a memory leak bug in the WCF telemetry module
- Improved the team build process by migrating the deployment solution to WiX installers resulting in a reduction of the total build time by a factor of 50%
- Participated in the design and implementation of an enterprise message aggregator using the RabbitMQ message broker and a common XML Schema to integrate multiple heterogeneous systems
- Modified and improved an existing Asp.Net MVC and WebForms web apps with jQuery
- I developed a SPA application to display live information updated via SignalR WebSockets from the server. The SPA was implemented using the Knockout.js framework, demonstrating my ability to work with modern JavaScript libraries and real-time technologies

## **EDUCATION**

---

### **Universitatea din București**

*Master's degree in Computer Science - Databases and web applications*

2016 – 2018

Bucharest, Romania