# REMUS DUTULESCU

## Sr. Software Engineer

📞 +40735843322  
🔗 https://remusd.info  
@ dutulescu.remus@gmail.com  
📍 Bucharest, Romania

---

## SUMMARY

I'm a passionate **Backend Software Engineer** contractor with a cloud-first mentality and over 6 years of work experience. Being an analytical thinker, **I enjoy solving complex problems** while holding high standards of software development and architecture. **My main focus is the .NET ecosystem**, but I also enjoy tapping into frontend technologies and DevOps. Always looking for a new and challenging (remote) opportunity!

---

## TECH SKILLS

| C# | .NET Core | .NET Framework | ASP.NET Core | TypeScript | Angular 2+ | Gatsby | Azure |
|---|---|---|---|---|---|---|---|

| GCP | Cloud Computing | Powershell | Microsoft Orleans | GraphQL | SQL | Git | NPM | gRPC |
|---|---|---|---|---|---|---|---|---|

---

## EDUCATION

### Bachelor's Degree in Computer Science
**University of Bucharest**

📅 2013 - 2016

- The university years left me with a valuable theoretical knowledge base that was was to play the role as the foundion for my future in software development. Here I've learned a great deal about **data structures**, **algorithms** and **programming paradigms** (with emphasis on **OOP**)

---

## EXPERIENCE

### Senior Software Engineer
**MindGeek**

📅 05/2020 - Ongoing   📍 Bucharest, Romania

Currently part of a dynamic team **developing internal services for one of the biggest online media providers in the world**. My responsabilities range from **devising and developing architectural designs** for the given project requirements, writing and maintaining documentation, creating and carrying out releases, as well as offering **continuous support** for the said services.

- Took part in the development of an **internal anti-fraud service** using the **Microsoft Orleans framework** while leveraging **CosmosDB**'s persistance capabilities for multi-region redundancy, **Azure Functions** for serverless workloads and **Azure Kubernetes Service** for deployments.
- Developed a side-car project containing extension modules meant to enrich the anti-fraud service capabilities. **Cross-region redundancy and low latency on high workloads were paramount** aspects to this add-on project, having achieved this also using **Microsoft Orleans** and various **Azure services**.
- Worked on a major **payments processing project meant to unify the payment workflows of the entire company's website catalogue**, while integrating with a variety of third-party billers and maintaining legacy support. The project spanned across multiple teams and was designed to be technology agnostic. It consisted of a high number of **microservices written in .NET**, **TypeScript** and **PHP**, exposing their functionality via **Web API and gRPC APIs** and wired together using **saga patterns implemented in NodeRed**. For cloud capabilities, **Google Cloud Platform** services were used - **Firestore** (for multi-region persistence), **Pub/Sub** for events ingestion, **Google Kubernetes Engine** for deployments.
- Developed and delivered various microservice integrations in the form of **NPM TypeScript packages**, meant to be used as building blocks for the NodeRed payment workflows.

# EXPERIENCE

## Full Stack Developer
### Qualysoft
📅 12/2019 - 05/2020  📍 Bucharest, Romania

Lead developer of a small team emabarked in a massive **refactoring project of one of the local event ticketing clients**. The project has unfortunately been halted by the client due to pandemic-related financial reasons.

- Worked closely with the client to analyze requirements using **DDD** and architected a new system design proposal.
- Overhaul of the back-office admin panel using **Angular** and **Umbraco**.

## Full Stack Developer
### Cegeka
📅 09/2018 - 03/2019  📍 Bucharest, Romania

Shifted towards a full stack position developing various enterprise web applications for worldwide business clients.

- Took part in the development of a **greenfield project for a tire recycing client**, basically an admin panel written in **.NET Core** on the backend, **Angular with PrimeNG** on the frontend and leveraging various **Azure** cloud technologies (**Azure Functions, Logic Apps, Table Storage, ARM Templates**).
- Extended the capabilities of an **identity management service** using **IdentityServer4** implementing the **OpenID Connect** and **OAuth 2.0** protocols, to be consumed by various microservices of an enterprise system.

## Backend Developer
### ORTEC
📅 03/2019 - 12/2019  📍 Bucharest, Romania

Developed **route planning cloud services** using the **.NET ecosystem** leveraging the **Azure** cloud computing capabilities.

- With emphasis on **process automation**, took part in the **development and maintenance of route calculation services**, as well as creating **CI/CD infrastructure** using **Jenkins pipelines** for build and **Azure DevOps** for deployment.
- Played an internal role as a **security focal** - the go-to person for software development security practices. **Analyzed and carried out the OWASP Top 10 list** for various products of the company, implemented authentication & authorization protocols (**OpenID Connect, OAuth2.0**), and wrote internal best-practices documents.

## Junior Backend Developer
### ORTEC
📅 03/2016 - 09/2018  📍 Bucharest, Romania

Worked in an Agile environment taking part in all main phases of carrying out the development and release of **route planning product**s.

- Took part in the development of the core routing software, designed based on distributed **microservices** and implemented using the **.NET stack** (**.NET Framework .NET Core, ASP.NET Core**), while based on the **Azure** cloud suite and exposed through **Web APIs** to the end client.
- Main developer of a so-called **Map Service** exposing **web APIs for time-distance calculations between geopoints** (wrapper over a Dijkstra implemetation written in C++), **map tiles display** (similar to GMaps, but leveraging HERE's API) as well as **full route planning** (also similar to the one provided by Google Maps) and **geocoding/reverse geocoding** capabilities**.
- Developed from the ground up an account management service using **.NET Core 2.0** and the **Azure Table Storage API**.

# SIDE PROJECTS

## SEO-Oriented Static Site Generator
📅 01/2021 - Ongoing

**General purpose static site generator with out-of-the-box SEO boilerplate**. Built to reduce the time-to-market of affiliate marketing websites, this project consists of a **CMS based on Sanity.io (React)** and the **static site generator itself written in Gatsby (React)**. **GitHub Actions** and **Azure DevOps** were used to automate as many of the workloads as possible, including multi-target deployments and site regeneration based on CMS triggers.

## SurveyQreator (Bachelor's Degree project)
📅 07/2019 - 09/2019
🔗 https://github.com/RemusDutulescu/survey-qreator

A glorified **survey coordination application**, built to demonstrate the **architecture of a highly scalable system using microservices** and cloud technologies. The project consists of several **.NET** microservices, an **Angular** dashboard and an API Gateway based on **Ocelot**.