

Mikolaj Semeniuk

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https://github.com/mikolajsemeniuk/ StackOverflow: https://stackoverflow.com/users/ 13947931/mikolaj-semeniuk

Skills

- Very good knowledge of Java version 8 and its data structures, including Optional, Streams and Regex expressions
- Very good knowledge of Spring Framework and Spring Security
- Very good command of C# version 5.0 and its data structures, inter alia, structures IEnumerable, ICollection, OneOf, LINQ, await/async, Regex and Reflection
- Very good command of .NET framework and Entity Framework, Migrations, Identity Server 4 and MassTransit
- Very good knowledge of Python version 3.7, especially in data analysis and building models to perform predictions, classification, learning about data structure, data tagging, generating synthetic data using Sklearn, Pytorch, Tensorflow and Keras
- Very good knowledge of **Docker** and **Kubernetes**
- Very good knowledge of Linux and Bash (I use Linux every day)
- Very good knowledge of Windows **Forms**
- Very good knowledge of VueJS and AngularJS frameworks, frontend application state management, dynamic data sending, displaying API requests
- Very good knowledge of languages such as NodeJS, GoLang and **ExpressJS** and **Go-GIN**frameworks
- Very good knowledge of the practices of writing Clean Code Uncle Bob's, SOLID principles, DDD, TDD and knowledge of design patterns such as CQRS, CQS, MVC, Fabric
- Very good knowledge of relational databases such as: SQL Server, MySQL, PostgresSQL
- Very good knowledge of non-relational databases such as: MongoDB, Redis, poor Apache Cassandra
- Ability to write unit tests and tests using the **Selenium** framework
- Very good command of the English language
- Very good knowledge of of environments such as: Visual Studio, Intellij, Visual Studio Code, Google Colab, Jupyter notebook oraz Conda

I am currently an extramural 3rd year student in **Data Science**. I have almost **three** years of experience in developing web applications mainly in languages such as Java and C # and data analysis using Python.

In my spare time I read books about data analysis, especially about unsupervised learning, and I learn new languages and upload projects to GitHuba, Google Colab, I also participate in StackOverflow

Experience

Ernst & Young

I was employed as a junior analyst, but the scope of my duties varied depending on the projects to which I was assigned. Below are the projects and responsibilities.

2021.09-Implementation of new functionalities and modernization of the internal 2021.01 portal of the British insurer. I was responsible for:

- Adding new functionalities contained on the portal: Jira and Confluence in accordance with the Scrum methodology
- Communicating with Business Analysts and Scrum Master from Great Britain in English
- Implementation of API endpoints using Spring Web compatible with the Controller, Service, Repository pattern
- tokens using OAuth2 and Spring Security • Configuration of communication between **micro services** using

• Implementing user rights and roles and generating authentication

- **RabbitMQ** • Implementation of writes and reads to the **SQL Server** relational
- database

Upload files using requests

Sending and receiving SOAP and REST requests

- Creating new branches, resolving merge conflicts and adding changes to the repository via Git version control versions, and Azure Dev Ops
- Writing unit tests
- Testing API with Postman, Insomnii and Swagger
- Writing and reading technical documentation

2020.12-Analiza danych dla wewnętrznego narzędzia IPD firmy EY do 2020.11 rozpoznawania procesów biznesowych. Do moich obowiązków należało:

- Czyszczenie i przygotowanie zebranych danych
- Analiza danych przy użyciu pythona 3.7, sklearn, pandas, numpy, matplotib oraz seaborn
- Wykrywanie cech za pomocą algorytmów z pakietu sklearn takich jak PCA, K-means oraz K Nearest Neighbors
- Budowanie modeli uczenia się struktury danych przy użyciu pytorch i tensorflow takich jak Autoenkodery

Data analysis for **EY** internal **EY** business process recognition tool. I was 2020.11-2020.05 responsible for:

- Cleaning and preparation of collected data
- Data analysis using python 3.7, sklearn, pandas, numpy, matplotib and **seaborn**
- Feature detection with sklearn algorithms such as PCA, K-means and K **Nearest Neighbors**
- Building data structure learning models using Pytorch and tensorflow such as Autoencoders

Implementation of an internal invoice settlement portal for a company 2020.02 from Poznań using the NodeJS language and the Express.js framework. I was responsible for:

- Adding new functionalities in accordance with the Scrum methodology
- Communicating with client and Scrum Master
- File validation in terms of business logic
- Coding, reading and saving a large number of files (mainly excel files) on the server
- Sending emails to customers who are in arrears with payment of their debts
- Testing API with Postman, Insomnii and Swagger
- Writes and reads to the PostgresSQL relational database Creating new branches, resolving merge conflicts and adding changes
- to the repository via Git version control versions, and GitLab

LastLevel I worked as a full-stack developer using technologies such as PHP with Laravel

2020.05-

framework and JavaScript with frameworks, AngularJS and VueJS

2019.02

2019.11-

online stores and blogs as well as data analysis for these portals. I was responsible for:

Implementation of new functionalities on the front and backend side in

- Maintaining application state with Vue Store and Angular NGRX Sending REST requests using Vue Axios and Angular HttpClient to the
- backend Generating mobile and desktop applications from JavaScript code
- Dynamic display of backend data
- Implementation of new artwork using VueJS and AngularJS, and bootstrap, material, tailwind css frameworks and SCSS

using Electron and Apache Cordova

compatible with the MVC pattern

- Implementation of **API** endpoints using the **Laravel** framework
- Implementing user rights and roles and generating authentication tokens
- Implementation of writes and reads to the MySQL referential database
- Sending emails to users Testing API with Postman, Insomnii and Swagger

Neighbors from **Sklearn**

using Laravel Passport

- Creating new branches, resolving merge conflicts and adding changes
- to the repository via Git version control versions, and GitLab, and RedMine Data analysis using the Python language and algorithms: PCA,

Logistic Regression, Random Forests, K- Means, K Nearest

Education

Warsaw School of Computer Science In 2019, I started my studies at the Warsaw School of Computer Science in Present-

2019.10

year and I am starting an engineering thesis about generating synthetic data by the Deep Belief Network model (Deep Belief Network)

extramural mode, specializing in **Data Science**. I am currently in my third