



Mikolaj Semeniuk

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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 **NodeJS** with **Typescript**, **ExpressJS**, **NestJS** and **TypeORM**
- Very good knowledge of **Go** with **Go-Gin**, **GORM**, **GRPC**
- Very good knowledge of the practices of writing **Clean Code** **Uncle Bob's**, **SOLID** principles, **DDD**, **TDD**, **YARNI**, **DRY**, **KISS** and knowledge of design patterns such as **CQRS**, **CQS**, **MVC**, **SOA**
- Very good knowledge of relational databases such as: **SQL Server** with **SQL Queries**, **Stored Procedures**, **Triggers**, **Indexes** and **MySQL**, **PostgreSQL**
- 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 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 **GitHub**, **Google Colab**, I also participate in **StackOverflow**.

Apart from my **CV**, please also check my **GitHub**

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.

2021.09–2021.01	Implementation of new functionalities and modernization of the internal portal of the British insurer. I was responsible for: <ul style="list-style-type: none">• 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• Implementing user rights and roles and generating authentication tokens using OAuth2 and Spring Security• Configuration of communication between micro services using RabbitMQ• Implementation of writes and reads to the SQL Server relational database• Sending and receiving SOAP and REST requests• Upload files using 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, Insomni and Swagger• Writing and reading technical documentation
2020.12–2020.11	Data analysis for EY internal EY business process recognition tool. I was responsible for: <ul style="list-style-type: none">• 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
2020.11–2020.05	Implementation of new functionalities and modernization of the internal portal of the company from the United States dealing with the production of prostheses. I was responsible for: <ul style="list-style-type: none">• Adding new functionalities contained on the portal: Jira and Confluence in accordance with the Scrum methodology• Communicating with Business Analysts and Scrum Master from the United States in English• Implementation of API endpoints using Asp Net Core Mvc compatible with the Controller, Service, IService pattern• Implementing user rights and roles and generating authentication tokens using OAuth2 and Asp Net Identity and Identity Server 4• Communication configuration between microservices using RabbitMQ and MassTransit• Implementation of writes and reads to the SQL Server relational database and Redis NoSQL database• Sending and receiving GRAPHQL requests using the Hot Chocolate framework and REST requests• Upload files using 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 with xUnit and Moq• Testing API with Postman, Insomni and Swagger• Writing and reading technical documentation
2020.05–2020.02	Implementation of an internal invoice settlement portal for a company from Poznań using the NodeJS language and the Express.js framework. I was responsible for: <ul style="list-style-type: none">• Adding new functionalities in accordance with the Scrum methodology• Communicating with client and Scrum Master• File validation in terms of business logic• Uploading, 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, Insomni and Swagger• Writes and reads to the PostgreSQL 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 framework and JavaScript with frameworks, AngularJS and VueJS

2019.11–2019.02	Implementation of new functionalities on the front and backend side in online stores and blogs as well as data analysis for these portals. I was responsible for: <ul style="list-style-type: none">• 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 using Electron and Apache Cordova• Dynamic display of backend data• Implementation of new artwork using VueJS and AngularJS, and bootstrap, material, tailwind css frameworks and SCSS• Implementation of API endpoints using the Laravel framework compatible with the MVC pattern• Implementing user rights and roles and generating authentication tokens using Laravel Passport• Implementation of writes and reads to the MySQL referential database• Sending emails to users• Testing API with Postman, Insomni and Swagger• 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 Neighbors from Sklearn
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Education

Warsaw School of Computer Science

Present–2019.10	In 2019, I started my studies at the Warsaw School of Computer Science in extramural mode, specializing in Data Science . I am currently in my third year and I am starting an engineering thesis about generating synthetic data by the Deep Belief Network model (Deep Belief Network).
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Some of my university projects were:

- Writing artificial neuronal network from scratch using **Numpy** in **C#** language
- Creating **unsupervised nlp algorithms/models** to classify text in python and **PyTorch/Scikit**
- Creating **CQRS** in **C#** using **Identity Server 4** and **RabbitMQ**
- Creating application based on client and server using **Golang**, **GORM** and **GRPC**
- Creating application using **Go** with **Go-Gin**, **GORM** and **ReactJS**