



## 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 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**, **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**

## 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.

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| 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"><li>• Adding new functionalities contained on the portal: <b>Jira</b> and <b>Confluence</b> in accordance with the <b>Scrum</b> methodology</li><li>• Communicating with <b>Business Analysts</b> and <b>Scrum Master</b> from Great Britain in English</li><li>• Implementation of <b>API</b> endpoints using <b>Spring Web</b> compatible with the <b>Controller, Service, Repository</b> pattern</li><li>• Implementing user rights and roles and generating authentication tokens using <b>OAuth2</b> and <b>Spring Security</b></li><li>• Configuration of communication between <b>micro services</b> using <b>RabbitMQ</b></li><li>• Implementation of writes and reads to the <b>SQL Server</b> relational database</li><li>• Sending and receiving <b>SOAP</b> and <b>REST</b> requests</li><li>• Upload files using requests</li><li>• Creating new branches, resolving merge conflicts and adding changes to the repository via <b>Git</b> version control versions, and <b>Azure Dev Ops</b></li><li>• Writing unit tests</li><li>• Testing <b>API</b> with <b>Postman</b>, <b>Insomnii</b> and <b>Swagger</b></li><li>• Writing and reading technical documentation</li></ul> |
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| 2020.12-2020.11 | Data analysis for <b>EY</b> internal <b>EY</b> business process recognition tool. I was responsible for: <ul style="list-style-type: none"><li>• Cleaning and preparation of collected data</li><li>• Data analysis using <b>python 3.7</b>, <b>sklearn</b>, <b>pandas</b>, <b>numpy</b>, <b>matplotlib</b> and <b>seaborn</b></li><li>• Feature detection with <b>sklearn</b> algorithms such as <b>PCA</b>, <b>K-means</b> and <b>K Nearest Neighbors</b></li><li>• Building data structure learning models using <b>Pytorch</b> and <b>tensorflow</b> such as <b>Autoencoders</b></li></ul> |
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| 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"><li>• Adding new functionalities contained on the portal: <b>Jira</b> and <b>Confluence</b> in accordance with the <b>Scrum</b> methodology</li><li>• Communicating with <b>Business Analysts</b> and <b>Scrum Master</b> from the United States in English</li><li>• Implementation of <b>API</b> endpoints using <b>Asp Net Core Mvc</b> compatible with the <b>Controller, Service, IService</b> pattern</li><li>• Implementing user rights and roles and generating authentication tokens using <b>OAuth2</b> and <b>Asp Net Identity</b> and <b>Identity Server 4</b></li><li>• Communication configuration between <b>microservices</b> using <b>RabbitMQ</b> and <b>MassTransit</b></li><li>• Implementation of writes and reads to the <b>SQL Server</b> relational database and <b>Redis</b> NoSQL database</li><li>• Sending and receiving <b>GRAPHQL</b> requests using the <b>Hot Chocolate</b> framework and <b>REST</b> requests</li><li>• Upload files using requests</li><li>• Creating new branches, resolving merge conflicts and adding changes to the repository via <b>Git</b> version control versions, and <b>Azure Dev Ops</b></li><li>• Writing unit tests with <b>xUnit</b> and <b>Moq</b></li><li>• Testing <b>API</b> with <b>Postman</b>, <b>Insomnii</b> and <b>Swagger</b></li><li>• Writing and reading technical documentation</li></ul> |
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| 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"><li>• Adding new functionalities in accordance with the <b>Scrum</b> methodology</li><li>• Communicating with <b>client</b> and <b>Scrum Master</b></li><li>• File validation in terms of business logic</li><li>• Uploading, reading and saving a large number of files (mainly excel files) on the server</li><li>• Sending emails to customers who are in arrears with payment of their debts</li><li>• Testing <b>API</b> with <b>Postman</b>, <b>Insomnii</b> and <b>Swagger</b></li><li>• Writes and reads to the <b>PostgreSQL</b> relational database</li><li>• Creating new branches, resolving merge conflicts and adding changes to the repository via <b>Git</b> version control versions, and <b>GitLab</b></li></ul> |
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### LastLevel

I worked as a full-stack developer using technologies such as PHP with Laravel framework and JavaScript with frameworks, AngularJS and VueJS

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| 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"><li>• Maintaining application state with <b>Vue Store</b> and <b>Angular NGRX</b></li><li>• Sending <b>REST</b> requests using <b>Vue Axios</b> and <b>Angular HttpClient</b> to the backend</li><li>• Generating mobile and desktop applications from JavaScript code using <b>Electron</b> and <b>Apache Cordova</b></li><li>• Dynamic display of backend data</li><li>• Implementation of new artwork using <b>VueJS</b> and <b>AngularJS</b>, and <b>bootstrap</b>, <b>material</b>, <b>tailwind css frameworks</b> and <b>SCSS</b></li><li>• Implementation of <b>API</b> endpoints using the <b>Laravel</b> framework compatible with the <b>MVC</b> pattern</li><li>• Implementing user rights and roles and generating authentication tokens using <b>Laravel Passport</b></li><li>• Implementation of writes and reads to the <b>MySQL</b> referential database</li><li>• Sending emails to users</li><li>• Testing <b>API</b> with <b>Postman</b>, <b>Insomnii</b> and <b>Swagger</b></li><li>• Creating new branches, resolving merge conflicts and adding changes to the repository via <b>Git</b> version control versions, and <b>GitLab</b>, and <b>RedMine</b></li><li>• Data analysis using the <b>Python</b> language and algorithms: <b>PCA</b>, <b>Logistic Regression</b>, <b>Random Forests</b>, <b>K- Means</b>, <b>K Nearest Neighbors</b> from <b>Sklearn</b></li></ul> |
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## Education

### Warsaw School of Computer Science

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| Present-2019.10 | In 2019, I started my studies at the Warsaw School of Computer Science in extramural mode, specializing in <b>Data Science</b> . I am currently in my third year and I am starting an engineering thesis about generating synthetic data by the Deep Belief Network model ( <b>Deep Belief Network</b> ) |
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I consent to the processing of my personal data for the purposes of the recruitment process (in accordance with the Act of May 10, 2018 on the protection of personal data (Journal of Laws of 2018, item 1000) and in accordance with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016. on the protection of individuals with regard to the processing of personal data and on the free movement of such data and the repeal of Directive 95/46 / EC (GDPR).