



# NEMANIA BOROVITS

Data Scientist

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## Professional skills

### Data Analysis:



**Programming language:** Python.

**Data engineering:** Apache Spark, Apache Kafka, Logstash.

**Data Visualization:** Plotly Dash, Matplotlib, Seaborn, Kibana.

**Machine learning:** Scikit-learn, NumPy, Pandas.

**Deep learning:** TensorFlow, Keras, PyTorch.

**NLP:** NLTK, Hugging face Transformers, spaCy, gensim, t-SNE.

**Web Crawling:** BeautifulSoup

### Cloud Technologies:



Google Cloud

Heroku

Microsoft Azure

### Back-end Development:



**Data modeling:** Microsoft SQL Server, MongoDB

**ORM:** nHibernate, Entity Framework.

**Business Logic:** asp .net MVC, asp .net (C#).

**API:** asp .net Web API 2 (C#), Flask.

**Web Services:** SOAP, RESTful (C#, Python).

### Front-end development:



**Web skills:** HTML5, Javascript, jQuery, AJAX, JSON, CSS, Bootstrap.

**JS Frameworks:** React js, Knockoutjs, VueJs.

### Source control tools:



## Summary

A passionate Data Scientist from Thessaloniki, Greece located in 's-Hertogenbosch, the Netherlands. I have worked for 5 years as a full stack developer and data engineer in Greece. Then, I decided to specialise my skill set in the domain of Data Science. After graduating with a Master's in Data Science & Entrepreneurship, I started the journey towards the PhD degree. The scientific domain in which I specialize is Data Engineering and AI for Privacy. My PhD is co-financed by Jheronimus Academy of Data Science and the Dutch Telco provider KPN.

## Professional Experience

### 15/10/2020 Data Scientist

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KPN

Performing scientific research with direct business value in the domains of:

- Data Engineering.
- Artificial Intelligence.
- Privacy.
- Ethics and AI.

Member of the KPN Responsible AI Lab. Developing transparent, privacy aware, and personalized AI solutions. The project contribute to the technical and legal aspects of transparency, on data engineering approaches that ensure privacy-by-design, on personalized and responsible offerings through text analytics and responsible up-lift modelling.

### 15/10/2019 Data Scientist / Research Assistant

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Tilburg University

31/03/2020

Performed academic research in the domain of Infrastructure as Code (IaC).

The practical part of the work included:

1. Data collection.
2. Data verification.
3. Data cleaning and preparation.
4. Data pre-processing.
5. Deep learning model development.
6. Model evaluation and tuning.
7. Model deployment.

The result of my work is an academic paper which was accepted (listing my name as first) for the Workshop on Machine Learning Techniques for Software Quality Evaluation (MaLTeSQuE).

The carried out research applies Deep Learning (CNN) in order to detect name-based bugs in Infrastructure as Code (IaC).

### 01/10/2016 Data Engineer

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Mouzenidis Group

17/08/2018

Designed, developed and maintained scalable data pipelines for member-companies of Mouzenidis Group holding.

Main duties included:

- 1) Design, develop and optimize architectures for data acquisition and storage.
- 2) Develop scripts for database maintenance, monitoring, and performance tuning.
- 3) Perform data integrations through Extract Transform Load (ETL) operations.
- 4) Deployment of machine learning models.
- 5) Collaboration with Analytics team in order to meet business goals.

- 01/10/2014 - Full Stack Developer  
[Mouzenidis Group](#)
- 30/09/2016 - Developed web applications for member-companies of Mouzenidis Group holding.
- Main duties included:
- 1) Design and development of server-side (back-end) and client-side (front-end) architecture.
  - 2) Management and development of well-functioning databases.
  - 3) Security and data protection settings implementation.
  - 4) Service-Oriented Architecture design and implementation through web services and APIs.
  - 5) Web server management and maintenance.
  - 6) Ideation of Web solutions in collaboration with marketing and sales department.
- 10/04/2013 - Junior Web Developer  
[Mouzenidis Travel](#)
- 30/09/2014 - Supported development of Mouzenidis Travel's websites.
- Main duties included:
- 1) Responsive web page redesigning.
  - 2) Javascript and CSS optimization.
  - 3) Page loading and SEO optimization.
  - 4) Modules development for the Mouzenidis Group CMS (<https://cms.mouzenidis.com/adminb>).
  - 6) Trained personnel from other departments on how to use the Mouzenidis Group CMS.

## Academic publications

*[FindICl: Using machine learning to detect linguistic inconsistencies between code and natural language descriptions in infrastructure-as-code.](#)*

*[DeeplaC : Deep Learning-Based Linguistic Anti-pattern Detection in IaC.](#)*

## Education

- 15/10/2020 - PhD in Data Engineering and AI for Privacy  
[Jheronimus Academy of Data Science](#)
- 27/08/2018 - MSc Data Science & Entrepreneurship  
[Jheronimus Academy of Data Science](#)
- 10/07/2020 - BSc in Applied Informatics  
[University of Macedonia](#)
- 18/07/2012 -

## Languages

### Mother tongues:

Greek, Serbian.

### Other languages:

English: IELTS, Proficiency in English University of Michigan.

Russian: Basic communication skills / working knowledge.

## Organisational Competencies

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Creating and keeping deadlines

Project management

Teamwork

Goal setting and meeting goals

Creative thinking

Strategic thinking

## Other interests

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Artificial intelligence ethics enthusiast.

Jogging, playing football, cooking and travelling.