NIKOLAOS KOUTANTOS

ELECTRICAL AND COMPUTER ENGINEERING

CONTACT

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TECH SKILLS

- MATLAB
- Python
- Javascript
- Databases
- GITHUB

SOFT SKILLS

- Communication
- Time management
- Problem Solving
- Creativity

LANGUAGES

- Greek
- English
- German

SUMMARY

Undergraduate Studies: Department of Electrical and Coputer Engineering - University of Patras.
Field of specialization:Division of Electric Power Systems

Thesis: Development of an electricity market simulation platform with elastic producers and loads
Official link: https://nemertes.library.upatras.gr/jspui/handle/10889/13718

Being interested in data science and the dynamic creation of my own REST APIs with usage of Python and Scrapy I am responsible for the deployment, testing and maintenance of a medium scale web application, mainly developed as a backend application.

As a side project I continued to develop my thesis by using Node.js and MongoDB to create a faster and more stable Energy Market web application .This is the future work of my thesis.

A dynamic approach of insertion , analysis and export of power systems data have achieved using MATLAB capabilities with a GUI application targeting to power systems analysis.

EXPERIENCE

Backend Developer **Aug 2020 - Present**
Self-Employed

Dynamic creation of my own REST APIs with the use of Python and a framework called Scrapy which is capable of crawling large amount of data.Splash and its JavaScript rendering capabilities are important factors during the whole product procedure. Dockerization of the whole source code is also a must for an efficient and reliable product.
MongoDB was used for storage as it is the most viable solution as far as speed, resources and maintenance cost are concerned.

EDUCATION

Electrical and Computer Engineering **Sep 2014 - Sep 2020**
University of Patras

During my Bachelor's years Mathematics and Physics were the most basic courses.

My main field of specialization was Electric Power Systems with undergraduate thesis:Development of an electricity market simulation platform with elastic producers and loads.

My thesis was a web application with use of MATLAB with Generators as the suppliers of energy and dispatchable loads as dynamic power demands of the system , despite the fixed loads.The whole application gives at the Administrator of the power system full supervisor capabilities.