Domagoj Korais

Junior software developer, background in data science and physics.

email Linkedin GitHub

Education

Master degree in Data Science and Scientific Computing Sep 2017 - March 2020

- Grade: 110/110.
- University: Università degli studi di Trieste, Trieste (Italy).
- Thesis: “An active learning rule based decision support system for production planning.”
- Acquired knowledge:
  - Statistics, Bayesian statistics, Machine learning, data visualization, computer vision, artificial intelligence, relational databases.
  - Programming languages: C++, Python, R.
  - Introduction to HPC concepts using MPI, OpenMp and CUDA on a cluster.
  - Linux: bash.
  - Versioning: git.
  - Agile development concepts and methods (test driven development, continuous integration) in Java.

Master degree in Physics of the Earth System Sep 2016 - Sep 2017

- Status: Uncompleted.
- University: Alma Mater Studiorum - Università di Bologna, Bologna (Italy).
- Acquired knowledge: physics of the atmosphere, oceanography, climatology, basics in geodesy.

Erasmus+ traineeship in Slovenia Apr 2016 - Sep 2017

Traineeship at the Karst research institute located in Postojna. My research focused on the study of the relation between external and internal weather conditions, using available meteorological data and in-situ data loggers.

Bachelor of physics Sep 2011 - March 2016

- Grade: 96/110.
- University: Università degli studi di Trieste, Trieste (Italy).
- Thesis: “Gravimetric survey of the “Grotta Impossibile” cave.”
- Thesis publication (not peer reviewed): “Atti e Memorie della Commissione Grotte“E. Boegan””

Scientific high school degree Sep 2006 - Jul 2011

Liceo scientifico Paolo Ruffini, Viterbo (Italy).

Work experience

Junior software developer at Cybertec, Trieste (Italy). Oct 2018-now

What am I doing:

- Developing mainly server side the company’s APS (advanced planning and scheduling) Web application, using Typescript, Node.Js, SQL, Backbone.js, some C++.
- Implementing new functions based on customer necessities.
- Using Selenium Web Driver for automated browser-based testing.
- During the master thesis we developed a rule-based system in order to make the company product more competitive. The main idea is to translate domain knowledge into rules, expressed using linguistic variables, and than fine-tune the mapping between linguistic variables and quantitative values using machine learning.

Hobbies and Interests

- Caving
- Mountaneering
- Photography