

GEORGIOS GIATRAKIS

Senior Software Engineer at Elsevier

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Utrecht, The Netherlands

georgios-giatrakis

EXPERIENCE

Elsevier

Senior Software Engineer

Feb 2023 – Ongoing

Amsterdam, the Netherlands

- Worked on Big Data migration tasks to transition data process pipelines into modern technologies, including Spark, Neo4j, and Elasticsearch.
- Mentorship of fellow engineers towards best practices and code quality.

Software Engineer III

Dec 2021 – Jan 2023

Amsterdam, the Netherlands

- Led the software design and implementation of university ranking integration on the platform, including THE, QS, and HCCR rankings, resulting in elevated traffic and enhanced customer acquisition for SciVal.
- Demonstrated expertise as an API champion for my squad, contributing to the successful migration of the second version of SciVal Public API.
- Maintained and enhanced existing components of the SciVal frontend application, written in Java and JavaScript.

Genetwister Technologies

Software Engineer

Jan 2021 – Nov 2021

Wageningen, the Netherlands

- Built and maintained existing and new features for CROPaware a web-based tool that integrates different types of data formats and sources used by breeders to support their decisions in the new development of crop varieties.
- Advocating and standardizing best practices and proper testing of the applications, improving data integrity and customer trust in the product.

Plant Production Systems Group, Wageningen University

Software Developer

Oct 2019 – Dec 2020

Wageningen, the Netherlands

- Developed the latest iteration of FARMSIM, a desktop application created using Python. The tool is widely used by external organizations, researchers, and master students to enhance crop-livestock production in farms.
- Created WUR-LICT, an Electron/React application that enables researchers to benchmark the living income of rural households in Africa.
- Designed the Nutrient Database Portal, a React-based web application that integrates various data sources of the group into a single, user-friendly web portal.

Genetwister Technologies

Software Engineer intern

Apr 2019 – Oct 2019

Wageningen, the Netherlands

- Created three new Java-based backend applications that effectively translate marker positions between reference genomes.
- Conducted a comparative analysis of Apache Cassandra and Neo4j databases with regard to speed and size of marker position translation.

TECHNOLOGIES

Programming - Scripting

Java

Javascript/Typescript

Python

Bash

Frameworks and Databases

Spring

JSP

React

Flask

PyQt

MySQL

Neo4j

Elasticsearch

Cassandra

PostgreSQL

Other Technologies

Git

Docker

AWS

Spark

Electron

LANGUAGES

English

Greek

Dutch



EDUCATION

M.S. in Bioinformatics

Wageningen University, the Netherlands

Aug 2017 – Aug 2019

Diploma in Engineering (Integrated Master of Engineering), Environmental Engineering

Technical University of Crete, Greece

Sept 2010 – Oct 2015