

# Georgios Giatrakis

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## PROFESSIONAL SUMMARY

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Senior Software Engineer with 6+ years of experience building innovative and scalable Web and Data Processing applications.  
Full Stack Engineer with a Back-end focus | Java, Python, Javascript, React

## EXPERIENCE

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### Senior Software Engineer | Elsevier | Amsterdam, the Netherlands

Dec 2021 – Present

*Elsevier* is a global leader in information and analytics. As a Senior Software Engineer in one of Elsevier's core products, [SciVal](#), I led and contributed to the architectural design and implementation of various existing and new features.

- Led the architectural design and implementation of university ranking integration on the platform, including THE, QS, and HCCR rankings, serving over 200K unique visitors and increasing customer acquisition.
- Maintained and enhanced existing components of the SciVal API and frontend applications, leading to increased user traffic and improved security.
- Migrated data process pipelines into modern technologies, including Spark, Neo4j and Elasticsearch, improving their efficiency and cost-savings by more than 10X.
- Enacted the role of Scrum Master, fostering agile methodologies to streamline collaboration and ensure successful project delivery.
- Mentorship of fellow engineers towards best practices and code quality.
- **Tech Stack:** Java, Javascript, Typescript, Python, React, AWS, Spring, MySQL, Neo4J, Elasticsearch, Apache Spark, JSP

### Software Engineer | Genetwister Technologies | Wageningen, the Netherlands

Jul 2021 – Nov 2021

*Genetwister* is an innovative biotechnology company specializing in bioinformatics. As a back-end engineer, I worked on improving the capabilities and scalability of Genetwister's data analytics platforms.

- Built new and maintained existing features in [CROPaware](#) a web-based tool that is widely used by 5 world leading companies in the plant biotech field.
- Evaluated the technologies, created the POC and worked on the implementation of [Leafy](#), a Graph based genomic analysis platform that allows researchers to find interconnected data faster.
- Advocating and standardizing best practices and proper testing of the applications, improving data integrity and customer trust in the product.
- **Tech Stack:** Java, Spring, MySQL, Neo4J, Docker, Jenkins, RabbitMQ, Microservice Architecture

### Software Engineer | PPS, Wageningen University | Wageningen, the Netherlands

Oct 2019 – Dec 2020

*PPS* (Plant Production Systems Group) is one of the chair groups of Wageningen University that analyses and designs sustainable production systems for crops. As a Software Developer of the group, I created various web and desktop applications to support the research and educational activities of the group.

- Developed the latest iteration of [FarmSim](#), a desktop application used by external organizations, researchers, and over 200 master students each semester to visualize and predict 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, an internal React-based web application that integrated over 10 different data sources of the research group into a single, user-friendly web portal.
- **Tech Stack:** Python, React, PostgreSQL, Electron, PyQt

### Software Engineer intern | Genetwister Technologies | Wageningen, the Netherlands

Apr 2019 – Oct 2019

*Genetwister* is an innovative biotechnology company specializing in bioinformatics. As a software engineer intern, I worked on improving the Genome Translation API, one of the core services of the platform.

- Built 3 Java back-end POC applications for streamlined marker position translation between reference genomes.
- **Tech Stack:** Java, Spring, Docker, Apache Cassandra, MySQL, Neo4J

## EDUCATION

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Wageningen University

**MS in Bioinformatics** | Wageningen, the Netherlands

Aug 2017 – Aug 2019

Technical University of Crete

**Environmental Engineering** | Chania, Greece

Sep 2010 – Oct 2015