

MARGHERITA GAMBINO

Software Engineer

🏠 Amsterdam (NL)

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🌐 margherita-gambino

🔄 marguels

Software Engineer with a focus on back end development, with more than four years of experience and a background in Theoretical Physics. My career is driven by curiosity, the enjoyment I get from problem-solving and learning.

🔗 SKILLS

Tech

- Java & Spring boot
- TypeScript & React
- Python
- SQL

Others

- Mathematics & Statistics ● Physics
- Docker ● Kubernetes ● Git
- New Relic ● Agile & Scrum

Soft

- ▷ Great documentation and communication skills
- ▷ Excellent organization and time-management skills
- ▷ Natural inclination to be a supporter figure in a team

☰ PROJECTS

Generative AI Hackathon winner

📍 Elsevier

📅 2023

Created a LLM-based Java application to automate project reviews.

Geocoding communities

📍 South Working (Volunteer)

📅 2020 - 2021

Creation of an interactive map of italian cowork spaces (MapboxGL JS).

💡 INTERESTS

📖 Sustainability & Environment

📖 Science & Innovation

📖 Technology & Computer science

📖 Learning languages

🏢 WORKING EXPERIENCE

Software Engineer III

📍 Scopus - Elsevier B.V. (Amsterdam)

📅 2019 - Today

Scopus AI project

- ▷ Contributed to system design and development of Scopus AI, LLM-based application with vector storage, developed and launched in record time for Elsevier.
- ▷ Led the system design and development of a new streaming solution, incorporating innovative infrastructural components.
- ▷ Achieved a 75% reduction in Time To First Byte (TTFB), decreasing from 10 seconds to 2.5 seconds, significantly enhancing user experience.
- ▷ Contributed to the design and implementation of Server Sent Events (SSE), enabling real-time data streaming and improving platform responsiveness.

Tech stack I use daily:

Python Java 17 & Spring boot 3 Reactive programming React
AWS Lambda Redis Kubernetes & Docker NewRelic Kibana

Scopus Assess literature project

- ▷ Developed and optimized a new export functionality microservice, reducing errors and enhancing performance, supporting 76k transactions daily.
- ▷ Created custom shared libraries, significantly improving development processes and efficiency within the Scopus team.
- ▷ Developed data-aggregator microservice for Scopus's most visited page, handling 1.9M transactions daily, demonstrating significant performance improvement.
- ▷ Crafted Custom Web Components for Scopus styleguide, improving UI consistency and user experience.
- ▷ Acquired full-stack expertise, developing and managing end-to-end features, ensuring seamless deployment to production.

🎓 EDUCATION

M.Sc. Theoretical Physics

📍 Utrecht University

📅 2016 - 2019

Research project in Early Universe Cosmology and Information theory.

B.Sc. Physics

📍 Università degli Studi di Palermo

📅 2013 - 2015

Thesis in Quantum Information Theory and Quantum Computing