

Marcel Gregoriadis

[🔗 marcelgregoriadis.com](https://marcelgregoriadis.com)
[🌐 linkedin.com/in/marcel-gregoriadis](https://www.linkedin.com/in/marcel-gregoriadis)
[🐙 github.com/mg98](https://github.com/mg98)
[✉ m.gregoriadis@gmail.com](mailto:m.gregoriadis@gmail.com)

EDUCATION

- Ph.D. Computer Science at Delft University of Technology** | *Delft, The Netherlands* 2023 – 2027
 Data-Intensive Systems Group at Dept. of Software Technology. Advised by Prof. Dr. Johan Pouwelse.
 Research on information retrieval in decentralized systems, LLM-based agents, and storage systems.
 → Summer school: *Advanced AI and ML: Natural Language Processing* at **University of Oxford**
 → PyTorch and LangChain experience prototyping for learning-to-rank, generative retrieval, federated learning, graph learning, RAG, and LLM-as-a-judge
- M.Sc. Computer Science at Humboldt University of Berlin** | *Berlin, Germany* 2020 – 2022
 Specializing in distributed systems and software engineering.
 Master's thesis "*Analysis and Comparison of Deduplication Strategies in IPFS*", graded 1.3[†].
- B.Sc. Computer Science and Media at Stuttgart Media University** | *Stuttgart, Germany* 2017 – 2020
 Focus on software and web development. Bachelor's thesis: "*Testing in Serverless Systems*".

ENTREPRENEURIAL VENTURES

- Tales of Us** | <https://talesofus.ai> 2025 – Present
 Created an LLM-driven app to create personalized storybooks using Firebase, Python, LangChain, Nuxt.js, Svelte.
- Abracadalo** | <https://abracadalo.com> 2021 – Present
 Created SaaS to help No-Code developers build better apps, using Firebase, MongoDB, Node.js. Sold 150+ subscriptions.
- BeFoo** | <https://grigoriadis.studio/projects/befoo>, <https://instagram.com/befoo.paris> 2020 – 2021
 Built full IT system for FoodTech startup, including admin panel, mobile, API, cloud infrastructure, project management. Tech stack: Go, GraphQL, Vue, AWS, TerraForm, Atlassian Suite.
 Raised €200k in funding, joined AWS Accelerator Program, and went bankrupt.
- Freelance Software Engineer** 2015 – 2023
 Started freelance business at the age of 16. Successfully completed 70+ projects for 15+ customers.

INDUSTRY EXPERIENCE

- Software Engineer at re:cap** | *Berlin, Germany* | 6 months 2022
 Implemented and deployed algorithm that synchronizes 1M+ daily bank transactions from APIs with local database using Go and SQL (key difficulty lied in detecting near-duplicates), and several other features for FinTech software using Go, React, TypeScript, AWS.
- DevOps R&D at inovex** | *Stuttgart, Germany* | 6 months 2020
 Researched TDD workflows for serverless functions with the DevOps department for my Bachelor thesis.
- Software Engineer at Zaya** | *Stuttgart, Germany* | 6 months 2019
 Deployed several features for an HR app connecting companies, recruiters, and job candidates, using Elixir, Vue, GCP.
- Software Engineer at Schommer Media** | *Stuttgart, Germany* | 1 year 2015 – 2016
 Worked at an internet agency at the age of 17. Involved in the development and maintenance of several PHP-based projects, project cost estimations, and customer support. Led two website launches myself.

[†]German grades range from 1.0 (excellent) to 5.0 (fail).

M. Gregoriadis, J. Kang, and J. Pouwelse, 2025. *A Large-Scale Web Search Dataset for Federated Online Learning to Rank*. In *Proceedings of the 34th ACM International Conference on Information and Knowledge Management (CIKM)*.

→ Novel dataset for learning-to-rank in asynchronous federated learning settings.

M. Gregoriadis, R. Chotkan, P. Neague, and J. Pouwelse, 2025. *SwarmSearch: Decentralized Search Engine with Self-Funding Economy*. In *Proceedings of the 50th IEEE Conference on Local Computer Networks (LCN)*.

→ Economic architecture for a decentralized search engine with Sybil- and spam-resilience.

M. Gregoriadis, Q. Stokkink, and J. Pouwelse, 2025. *Decentralized Adaptive Ranking using Transformers*. In *Proceedings of the 5th Workshop on Machine Learning and Systems*.

→ Learning-to-rank for document relevance ranking in P2P systems.

M. Gregoriadis, L. Balduf, B. Scheuermann, and J. Pouwelse, 2024. *A Thorough Investigation of Content-Defined Chunking Algorithms for Data Deduplication*. *arXiv preprint*.

→ Analysis and benchmark of CDC algorithms.

P. Neague, **M. Gregoriadis**, and J. Pouwelse, 2024. *De-DSI: Decentralised Differentiable Search Index*. In *Proceedings of the 4th Workshop on Machine Learning and Systems*.

→ Generative retrieval for document retrieval in P2P systems.

M. Gregoriadis, R. Muth, and M. Florian, 2022. *Analysis of Arbitrary Content on Blockchain-based Systems using BigQuery*. In *Companion Proceedings of the Web Conference 2022*.

→ Forensic analysis on BTC/ETH blockchains.