

Marcel Gregoriadis

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EDUCATION

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| Ph.D. Computer Science at Delft University of Technology <i>Delft, The Netherlands</i> | 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: <i>Advanced AI and ML: Natural Language Processing</i> 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 <i>Berlin, Germany</i> | 2020 – 2022 |
| Specializing in distributed systems and software engineering. | |
| Master's thesis " <i>Analysis and Comparison of Deduplication Strategies in IPFS</i> ", graded 1.3 [†] . | |
| B.Sc. Computer Science and Media at Stuttgart Media University <i>Stuttgart, Germany</i> | 2017 – 2020 |
| Focus on software and web development. Bachelor's thesis: " <i>Testing in Serverless Systems</i> ". | |

ENTREPRENEURIAL VENTURES

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| 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

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| Software Engineer at re:cap <i>Berlin, Germany</i> 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 <i>Stuttgart, Germany</i> 6 months | 2020 |
| Researched TDD workflows for serverless functions with the DevOps department for my Bachelor thesis. | |
| Software Engineer at Zaya <i>Stuttgart, Germany</i> 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 <i>Stuttgart, Germany</i> 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).

PUBLICATIONS

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.