

Bart de Goede | Resume

New York NY, United States

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Summary

I am an engineering manager with more than 12 years of experience in (search) technology. Currently I lead the search team at StubHub. Previously, I was a member of the technical staff at Perplexity AI, where I work on file parsing, search ranking and reliability. Before that, I co-founded a web development agency, worked as a senior software engineer on the search and data teams of one of the fastest growing unicorns in Europe, on the search team at a digital library, e-book and audiobook subscription service, the growth team at a North American grocery delivery service, and ran search engineering at OnFrontiers.

I love building scalable systems, designing sensible APIs, working on products that users cannot live without. I have a soft spot for search and recommendation systems, helping others succeed, and applying machine learning in such a way that it feels like magic.

Skills

Natural languages English (fluent), Dutch (native)

Programming languages Python, Ruby, SQL, Javascript, Go, Scala

Frameworks Django, Flask, FastAPI, Rails, Grape, D3, React

Databases MySQL, PostgreSQL, Elasticsearch/OpenSearch, Solr, MongoDB, Redis, DynamoDB, Vespa

Tools and versioning Git, Mercurial, Virtualbox, Vagrant, Ansible, Fabric, Chef, AWS, Terraform

Other keywords Agile software development (Scrum, Kanban), user-focused, AB-testing, Eppo, Nginx, ELK, Resque, Grafana, Datadog, (micro)services, architecture, (RESTful) API design, NLTK, Gensim, scikit-learn, Spark, Airflow, Scrapy, asyncio, Sagemaker, litgpt, Claude Code, Linux (server) environments, bash scripting, Unicorn, uWSGI, RabbitMQ, Kafka, React

Experience

StubHub

Engineering Manager, Search

March 2025 – Present

Role: I joined the search team as a staff engineer, and now I'm the engineering manager for the search and discovery team at StubHub, a global online ticket marketplace where fans can buy and sell tickets for sports, concerts, theater, and other live entertainment events.

Interesting challenges: Architecting the in-house search engine, building AI-powered e-commerce search, fine-tuning query parser models

Skills used: Python, C, OpenSearch, AWS, SQL (Server), Snowflake, OpenAI, Claude

Perplexity AI

Member of Technical Staff

April 2024 – Jan 2025

Role: Member of Technical Staff, using LLMs to build an answer engine on top of the web.

Interesting challenges: Rebuilt the file attachment flow, improved PDF parsing quality, added support for various other file types, and launched hybrid search over files and the web. Improved overall search ranking quality with multi-query reformulation and reranking of results.

Skills used: Python, FastAPI, AWS, (Postgre)SQL, Redis, Vespa, Snowflake, Spark (Databricks), DynamoDB.

OnFrontiers

Head of Search Engineering, Search

April 2023 – April 2024

Role: I lead search engineering at OnFrontiers, which helps organizations gain insight into the knowledge and experience of their employees. We leverage LLM-generated knowledge and descriptions in a custom taxonomy to do semantic search and expansion on user knowledge profiles.

Interesting challenges: Architected, designed and built the search APIs from scratch, reducing reindexing time from more than an hour to less than 10 seconds, and lowering request latency 8x. I maintained the Opensearch clusters, search ETL pipelines and tune the Opensearch queries.

Skills used: Python, FastAPI, OpenSearch, AWS, (Postgre)SQL, Redis, React/Javascript, OpenAI

Instacart

Senior Software Engineer II, Growth

October 2021 – April 2023

Role: Senior software engineer on the Growth team, sending 75+ million relevant messages to our users. This includes emails, push notifications and in-app merchandising.

Interesting challenges: Built and scaled a system for personalized email content with DynamoDB and Sidekiq. This system sends over 10 million emails with personalized grocery recommendations in an hour to the entire user base.

Designed a system that automates email and push notification campaigns for dozens of retailers on the Instacart platform.

Skills used: Ruby, Python, RSpec, Airflow, (Postgre)SQL, Redis, Memcached, React/Javascript, Braze, Snowflake

Scribd

Senior Software Engineer, Search and Web Infrastructure

October 2018 – October 2021

Role: Senior software engineer on the search and web infrastructure teams, making sure our 250 million monthly users can find the content they're looking for in Scribd's vast catalog. This includes developing search and ranking features, as well as being the team subject matter expert for Elasticsearch.

Interesting challenges: Migrated Elasticsearch and search applications to AWS in less than 3 months. Increased the resiliency, reliability, and scalability of the Elasticsearch clusters, reduced downtime risks, and unlocked testing different analysis pipelines and relevance tuning experiments at scale. Rebuilt controller and front-end architecture for content preview pages, improving core web vital metrics and accelerating team velocity.

Skills used: Ruby, Python, RSpec, Elasticsearch, (My)SQL, Redis, Spark, Chef, Go, Terraform, React/JavaScript

Catawiki

Senior Software Engineer, Search & Discovery and Data Science teams

February 2016 – September 2018

Role: Senior developer responsible for site search, auction and category list pages, and integration of machine learning models on the Catawiki platform. This includes technical responsibilities for ETL, query building and performance optimization, product responsibilities such as integrating business requirements with search ranking and team responsibilities such as cross-team mentoring, pair programming and code reviews.

Interesting challenges: Migrated site search from a legacy monolith application with Solr to a separate microservice using Elasticsearch. This migration did not have downtime and had no negative impact on business metrics; resulted in an increase of 47% in visitor-to-bidder ratio in user sessions using search.

Skills used: Ruby, RSpec, Grape, Elasticsearch, Solr, MySQL, Redis, Python, Ansible, ELK

Dispectu

Co-founder

September 2012 – November 2015

Dispectu was a full-stack software development agency specialized in web applications, search engine implementations and data visualization. We built search engines and interactive data visualization applications for a variety of customers. Examples include building an open source API for publicly available cultural open data, an [ngram-viewer](#) for 150 years worth of OCR-ed Dutch newspapers and natural language processing APIs.

University of Amsterdam

Research assistant

2010–2012

Role: Developing software for the PoliticalMashup research project, where we built a database of Dutch political data (parliamentary proceedings, biographical data, laws, etc.).

Skills used: Python, eXist-db, XML, Xpath, Solr

Additional activities

Elasticsearch core training

2014

E&Y NextGen Academy

2011

Education

University of Amsterdam

Master of Information Science

2011–2012

Thesis published at SIGIR 2012 Workshop on Time-aware Information Access

University of Amsterdam

Bachelor of Information Science

2008–2011

Student member of the Department Committee

2008–2011

The Department Committee is responsible for safeguarding and advising the department board and dean on the quality of teaching, organization and the course curriculum.

Attended ESSIR in Koblenz (European Summer School in Information Retrieval)

2011

Publications

2013 Huurnink, B., Bronner, A., Bron, M., Van Gorp, J., de Goede, B. & van Wees, J. AVResearcher: Exploring Audiovisual Metadata. In *CEUR Workshop Proceedings* (2013), vol. 986, pages 1–2.

2013 De Goede, B., van Wees, J., & Marx, M. Politicalmashup ngramviewer. In *Proceedings of the 13th Dutch-Belgian Workshop on Information Retrieval* (April 2013), vol. 986, pages 54–55. Winner of the conference *Best demonstrator award*.

2012 Migut, M., van Wees, J., Bakker, D., de Goede, B., Steltenpohl, H., Oude Lenferink, N., & Worring, M.. VAST challenge 2012: Interactively finding anomalies in geo-temporal multivariate data. In *Proceedings of the IEEE Conference on Visual Analytics Science and Technology*, Seattle, WA, October 2012.

2012 Goede, B. de, Schuth, A. & Rijke, M. de (2012). Sustainable Questions: Determining the Expiration Date of Answers. In *SIGIR 2012 Workshop on Time-aware Information Access: #TAIA2012*, Portland, OR, August 2012. Accepted papers. Microsoft Research.

2011 De Goede, B., Marx, M., Nusselder, A., & van Wees, J. (2011). Succinct summaries of narrative events using social networks. In *Proceedings of the 22nd ACM conference on Hypertext and hypermedia*, pages 299–304.