Curriculum Vitae

Personal details

Name Thomas Werthenbach

Date of birth 25-06-2000 Nationality Dutch

Email address tak.werthenbach@gmail.com

Work experience

Software Engineer | BeDataDriven

Jul 2022 - Present | The Hague | NGO-focused tech company

BeDataDriven develops ActivityInfo, a platform for managing data in humanitarian and development operations. It enables NGOs to quickly deploy advanced tools for data collection, monitoring, and analysis, even when offline.

- Building query planners, optimizers and executors for our custom DBMS.
- Created a real-time, spreadsheet-like interface with advanced validation, ensuring accessibility and usability for non-technical users, while maintaining custom constraints.
- Implemented robust offline support (service workers, caching, IndexedDB) to allow teams in remote regions to continue working without connectivity.
- Mentoring junior software engineers on software development projects.

Main skills: Java, Google Cloud, analytic thinking, dynamic programming and design patterns

Lead Software Engineer / Co-founder | AndMore Direct

Oct 2021 - Present | Hoofddorp | Contract Management for SMEs & Non-profits

Founded AndMore Direct to build a reliable contract management system with integrated vendor management, focused on the needs of small and medium-sized enterprises and non-profits.

- Designing and implementing software architectures from scratch.
- Collaborated closely with clients to establish feature specifications and ensure smooth user experiences.
- Overseeing the development of all software development projects, as well as long-term support.

Main skills: Python, Django, Angular CLI, Azure, monolithic architecture, product ownership, leadership

Software consultant | NAVARA

May 2021 - Oct 2021 | Driebergen | Software consultancy

Contributed to the development of a social networking platform aimed at reducing gender discrimination in professional settings, and collaborated on a payroll-integrated loan system for a fintech startup. Also advised clients on technical architecture and delivered scalable solutions using both serverless and monolithic environments.

Main skills: C# .NET, Angular CLI, Azure, CI/CD

Software Developer | Ticket Team

Jul 2019 – Apr 2021 | Sassenheim | Access Control Systems

Contributed to a stadium access system and redesigned its reporting tools. Also built an automated update wizard to manage deployments, database migrations, and guarantee data integrity.

Main skills: Delphi and PostgreSQL

Software Developer | De Bijlesmeester

Jun 2019 - Jul 2019 | Amsterdam | EdTech & Tutoring

Developed a CRM for tutor-student matching and helped build an online learning platform. Worked on both the backend and front-end to deliver educational tools and scheduling functionality.

Main skills: Python, JavaScript, PostgreSQL, Django and monolith server management



Education

MSc Computer Science | Delft University of Technology (TU Delft)

2023 | Track: Software Technology

Graduated cum laude with a GPA of 8.6. Completed in nominal time at 0.4 FTE alongside professional work.

BSc Computer Science and Engineering | Delft University of Technology (TU Delft)

2021 | Track: Systems

Graduated cum laude with a GPA of 8.2. Completed in nominal time at 0.4 FTE alongside professional work.

Internships

Master thesis | Towards Sybil Resilience in Decentralized Learning

Nov 2022 – Jul 2023 | Delft University of Technology | Distributed Systems Research Group

Designed and implemented the first defence mechanism against Sybil attacks (fake identity attacks) in decentralized learning systems, contributing to fairer distributed machine learning. Published on arXiv: arXiv:2306.15044

Literature survey | Survey on social reputation mechanisms: Someone told me I can trust you Sep 2022 – Oct 2022 | Delft University of Technology | Distributed Systems Research Group

Explored various trust and social reputation mechanisms, highlighting their relevance by linking them to real-world social phenomena. Published on arXiv: arXiv:2212.06436

Bachelor Thesis | Inferring Log-Based Behavioural System Models Using Markov Chains

Apr 2021 – Jul 2021 | Delft University of Technology | Software Engineering Research Group

Used probabilistic models to analyse complex software behaviour from system logs. Published in TU Delft Repository.

Mathematics Teacher

Sep 2020 – Jan 2021 | Johan de Witt Scholengroep, Schilderswijk (The Hague)

Taught high school mathematics in one of the Netherlands' most diverse neighbourhoods. Earned second-degree teaching qualification (tweedegraads bevoegdheid).

Extracurricular activities

Member | Effective Altruism Delft

2022 - 2023

Completed fellowship and took part in discussions on the most effective ways to make a positive impact.

Member | Socrates International Honour Society

Jun 2018 - Present

Invited because of early academic achievements.

Scouting Leader | Waterscouting Mees Toxopeus

Oct 2016 - Nov 2018 | Beverwijk

Organised weekly activities for two age groups of children aged 5–11.

Additional Skills

Programming Languages: Python, Java, C#, Delphi/Pascal, JavaScript, TypeScript

Web & Front-End: Angular CLI, HTML/CSS Back-End & Frameworks: Django, .NET, Jersey

Databases & Data: PostgreSQL, SQL

DevOps & Infrastructure: Azure, CI/CD, monolith and serverless architectures

Languages

Dutch: Native English: Fluent