Sandra Becker

Frontend Developer - Data Visualization

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Data visualization and frontend developer with a background in statistics, building interactive, data-intensive interfaces. I design and implement component-based UI systems using Svelte and React, translating complex data into clear, performant dashboards and applications.

Core Competencies

Front-End Development

HTML, CSS, JavaScript & TypeScript. Frameworks: React, Svelte, Tailwind CSS, Performance-aware and maintainable front-end architecture, Git-based workflows, code reviews, collaborative development

Data Visualization & Systems

Design and development of data-intensive interfaces for exploration, including dashboards and information design, alongside building scalable visualization components and interaction models with d3.js

Design & Interaction

Design of complex interaction patterns (filtering, comparison, drill-down, search, animated transitions), UX/UI prototyping and interface design (Figma), Information architecture and accessibility (WCAG), Responsive design using modern CSS (Tailwind, Flexbox, Grid)

Languages

German (native), English (fluent), Spanish (fluent), French (fluent)

Project Work

Story Data · Spain (Remote)
UI / Data Visualization design & development 2025-present

Industrial Housing (ConstruNews) · View project
- Designed and developed an interactive visualization system for exploring industrial housing tender data
- Analyzed large public datasets to identify patterns and support deep exploration
- Improved information hierarchy and structured data for clearer interpretation across visualizations

Pla de Salut (Catalonia's Public Healthcare System) · View project
- Built a component-based dashboard and frontend data platform with dynamic filtering and multi-level navigation for large datasets
- Structured health indicator data and translated complex metrics into clear, usable interfaces

Liminal · US (Remote)
UI / Data Visualization design & development · View project 2025

- Built a data-driven Use Case Explorer, an internal decision-support interface for comparing analytical scenarios
- Integrated React with bespoke D3.js visualizations, implementing filtering, comparison, and drill-down interactions
- Collaborated with product and analytics teams to translate requirements into usable interface patterns

Global Inequality · Independent
UI / Data Visualization design & development · View project 2024-2025

- Developed an interactive, data-intensive project exploring global inequality across multiple dimensions
- Built a Svelte-based interface with comparative views, UI controls, and scroll-driven interactions

Natural Disasters · Independent
UI / Data Visualization design & development · View project 2023-2024

- Conducted exploratory data analysis (EDA) on long-term natural disaster data, exploring metrics related to frequency and economic damage, with attention to data quality and comparability over time
- Built an interactive visualization to support interpretation of trends across disaster types and time

Bitsight · Portugal
UI / Data Visualization design & development · View project 2020-2023

- Provided long-term analytical and UX guidance to improve internal and client-facing dashboards
- Design and implementation of an interactive project, including data scoping and analytical framing
- Built exploratory interfaces for event-based cybersecurity datasets using D3.js

Academic Experience

Arcada University of Applied Sciences · Finland (Remote)
Professor · Data Visualization & AI 2020-2023

- Taught bachelor-level courses in Decision Support Systems and Analytical System Design
- Taught master-level courses in Visual Analytics within the Big Data Analytics program
- Designed curricula and course materials focused on analytical reasoning, visual interpretation, and interactive visualization systems

IE Business School · Spain
Professor · Data Visualization 2018-2020

- Lectures and content development for the Big Data Master Program
- Focus on interactive data visualization, visual analytics, and data-driven storytelling

Universidad Europea · Spain
Professor · Data Visualization 2017-2024

- Lectures and course content development for the Big Data Master Program
- Topics included visual analytics, interactive visualization, and communication of complex data

Earlier Professional Experience (Analytics & Modeling)

Telefonica · Spain
Big Data Visualization 2015-2017

- Led training, workshops, and consultancy in data visualization for teams in Spain and Brazil
- Developed visualization strategies and prototypes

Zenith Media · Spain
Modelling Analyst 2015

- Managed econometric modeling projects analyzing the impact of digital media on sales
- Supported measurement of marketing effectiveness and strategy optimization

Hamilton · Spain
Senior Consultant 2014-2015

- Led strategic market research projects with focus on consumer behavior analysis

GroupM (MEC) · Germany
Manager Analytics & ROI 2013-2014

- Led media mix modeling (econometric models) and ROI analysis projects
- Presented analytical results to clients and senior stakeholders

Hall & Partners · UK
Data Analyst 2011-2013

- Applied advanced statistical methods to brand, media, and advertising research
- Supported international analytics projects and client advisory work

Nielsen · Germany & Spain
Analyst 2008-2011

- Panel data analysis of consumer purchasing behavior and modeling solutions using SAS
- Contributed to household-level and shopping behavior models

Education

FernUniversität in Hagen · Germany
Master's degree · business and economic studies 2004-2010

- Specialization: Statistics & Marketing, Master's thesis in cooperation with Nielsen: Empirical study of factors influencing FMCG consumer spending using household panel data