



# Giacomo d'Antonio

Lead Software Engineer



[github.com/giacomo-dantonio](https://github.com/giacomo-dantonio)



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[linkedin.com/in/giacomo-d-antonio-97273227](https://www.linkedin.com/in/giacomo-d-antonio-97273227)



[giacomo-dantonio.github.io/vissi\\_darte](https://giacomo-dantonio.github.io/vissi_darte)

## About me

Hi! I'm Giacomo. I am a lead software engineer in Bremen, Germany. I have 10+ years experience in full-stack development and 3+ years in Engineering Leadership. I am passionate about coding, leadership, and diversity. I'm dedicated to driving innovation, for example in the realm of AI and Machine Learning.

I am proficient in multiple programming languages and technologies and have a strong domain knowledge in PLM/CAX and Engineering.

## Technologies

ASP.Net   C++   C#   CAD   CAE   CI/CD   Databases   Docker   FEM   Haskell  
HOOPS Communicator   HOOPS Exchange   JavaScript   Linux   Machine Learning   .Net  
Optimization   Python   React   Redux   Rust   Scrum   SQL   TDD   TypeScript  
 Vue.JS   WebAssembly

## Experience

### Synera GmbH

#### Lead Software Engineer

**Jan 2020 to now**

At Synera I lead the *Cloud* and *Web* team. In addition to the management and Scrum tasks I also develop cloud microservices using C# with ASP.Net and Rust, together with their front ends with TypeScript and Vue.JS.

I also worked on integration of *simulation* and *optimization* solvers in our C# application and on computational geometry algorithms in C++.

### Contact Software GmbH

#### Senior software engineer

**Oct 2012 to Dec 2019**

At Contact I was a developer of *PLM web applications*. I used Python for the backend and JavaScript with the React/Redux framework for the frontend.

I was the product owner of the products *3D Visualization*, *Variant management*, and *BOM/Virtual product*. I also managed the agile development processes for these products.

**Juli 2011 to Sep 2012**      During my PhD at the university of Bremen I had a part time developer position at Contact. In this time I worked on the packages *KPI/metrics* and *Variant management* of the PLM software.

Universität Bremen      **Wissenschaftlicher Mitarbeiter**

**Feb 2010 to Sep 2012**      During my PhD I had a part time position as a research and teaching assistant (Wissenschaftlicher Mitarbeiter) at the mathematics department. I did some research related to my PhD thesis and taught exercise classes in algebra and topology.

## Education

Universität Bremen      **PhD**

**2010 to 2012**      *Summa cum Laude.*

I wrote my [PhD thesis](#) on the combinatorics and algebraic topology of toric arrangements at the mathematics department of the university of Bremen.

Università di Pisa      **Master degree in Mathematics**

**2006 to 2009**      *110 cum Laude/110.*

Master degree in mathematics at the university of Pisa. I had a focus on abstract algebra and algebraic topology. My master thesis was about representation theory and hyperplane arrangements.

Università di Pisa      **Bachelor degree in Computer Science**

**2002 to 2006**      *110 cum Laude/110.*

Bachelor degree in computer science at the university of Pisa. I had a focus on optimization and operational research. My bachelor thesis was about optimization methods for non differentiable convex problems.

## Skills

### Languages

Italian	Native
German	Fluent
English	Proficient
Dutch	Basic

## Personal

**Interests**      Running, Swimming, Triathlon, Gardening, Slow food.