





# Giacomo d'Antonio

## Senior Software Engineer

 [github.com/giacomo-dantonio](https://github.com/giacomo-dantonio)  
 [stackoverflow.com/users/785542/giacomo-dantonio](https://stackoverflow.com/users/785542/giacomo-dantonio)  
 [linkedin.com/in/giacomo-d-antonio-97273227](https://linkedin.com/in/giacomo-d-antonio-97273227)  
 [giacomo.cloud](https://giacomo.cloud)


































## About me

Hi! I'm Giacomo. I am a software engineer in Bremen, Germany. I have 13+ years experience in full-stack development and 3+ years in Engineering Leadership. I am passionate about coding, leadership, and diversity. I am a product-minded engineer. I'm dedicated to driving innovation, for example in the field 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

 AWS  ASP.NET  C++  C#  CAD  CAE  CI/CD  Databases  Docker  FEM  
 Generative AI  Haskell  HOOPS Communicator  HOOPS Exchange  JavaScript  k8s  
 Langchain  Linux  Machine Learning  .Net  Optimization  Python  React  Redux  
 Rust  Scrum  SQL  TDD  TypeScript  Vue.js  WebAssembly

## Experience

### BTC AG

#### Senior Software Engineer

May 2024 to now

At BTC I am part of the *Data Science and AI* team. I worked in an autonomous vehicles project. I was a product owner and tech lead in the cloud infrastructure team of the project. I was also an interface between the data scientists and the cloud developers.

I developed cloud infrastructure on AWS using AWS CDK, I worked on the serverless backend and on the React frontend.

I also worked on Generative AI projects building agents around LLMs.

### Synera GmbH

#### Lead Software Engineer

Jan 2020 to Apr 2024

At Synera I lead the *Cloud* and *Web* team. In addition to the management and Scrum tasks I also developed 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

Oct 2012 to Dec 2019

### Senior software engineer

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.

## Contact Software GmbH

Juli 2011 to Sep 2012

### Software engineer

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

Feb 2010 to Sep 2012

### Wissenschaftlicher Mitarbeiter

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

2010 to 2012

#### PhD

*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

2006 to 2009

#### Master degree in Mathematics

*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

2002 to 2006

#### Bachelor degree in Computer Science

*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.

## Languages

Italian	Native
German	Fluent
English	Proficient
Dutch	Basic