





# Giacomo d'Antonio

## Lead Software Engineer

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













## 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

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

# Personal

Interests Running, Swimming, Gardening.