Giacomo d'Antonio

Lead Software Engineer

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About me

Hi! I'm Giacomo. I am a lead software engineer in Bremen, Germany.

Currently I lead a cloud native fullstack team. I enjoy the management and the coding part of my job likewise. I am also involved in Product Management, and in the Scrum process.

I have a bachelor degree in computer science and a PhD in mathematics. I have broad interests ranging from CAD, Machine Learning, optimization, scientific computing, 3D visualization and computational geometry, to web development, microservices and cloud computing.

I've been working on engineering software since 2012.

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

Jan 2020 to now

Lead Software Engineer

At Synera I lead the *cloud services* team. In addition to the management 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 work 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	Software engineer
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	Wissentschaftlicher Mitarbeiter
Feb 2010 to Sep 2012	During my PhD I had a part time position as a research and teaching assistant (Wissentschaftlicher 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.