



# Alexander Schoch

Process/Chemical Engineer  
Web Developer

- 09.05.1999
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## Languages

German	●●●●●●
English	●●●●●●
French	●●●●●●

## Software Skills

Python	●●●●●●
Django	●●●●●●
R	●●●●●●
Julia	●●●●●●
Java	●●●●●●
JavaScript / Node.js	●●●●●●
TypeScript	●●●●●●
CSS / TailwindCSS	●●●●●●
HTML	●●●●●●
React.js / Next.js	●●●●●●
tRPC / GraphQL	●●●●●●
PHP	●●●●●●
Symfony / Laravel	●●●●●●
Elixir	●●●●●●
Phoenix	●●●●●●
bash	●●●●●●
Perl	●●●●●●
C/C++	●●●●●●
git / GitLab	●●●●●●
GNU/Linux	●●●●●●
LaTeX / typst	●●●●●●
Blender	●●●●●●
GIMP	●●●●●●
Inkscape	●●●●●●

## Education

2005 – 2010	Primary School	6288 Schongau
	<b>Primarschule Schongau</b>	
2010 – 2017	Gymnasium	6283 Baldegg
	<b>Kantonsschule Seetal</b>	
2017 – 2021	Bachelor of Chemical Engineering	8092 Zürich
	<b>D-CHAB, ETH Zürich</b>	
2021 – today	Master of Process Engineering	8092 Zürich
	<b>D-MAVT, ETH Zürich</b>	

## Work experience

2020 – 2020	<b>Exercise Assistant for Informatik I</b>	D-CHAB, ETH Zurich
	First semester Students of chemistry, chemical engineering and interdisciplinary sciences visit the Informatics I course. For this, they have to solve programming exercise in C++ and bash and visit an exercise session for this every week. This required a good understanding of both bash and C++, as well as being a power user for the GNU/Linux operating system, on which this course was held.	
2021 – 2022	<b>Lab Assistant</b>	D-CHAB, ETH Zurich
	Every week, I supervised a new group of students for the experiments "Vapour Pressure" and "Boiling Diagrams", in which the students gain a deeper understanding of the Clausius-Clapeyron equation and the Wilson model. I taught them how to evaluate their data using the R language and how to write lab reports.	
2023 – 2024	<b>Membrane Engineer</b>	Novamem AG
	In order to try and produce a fluorine-free venting membrane, I iterated a recipe to improve air flow and water entry pressure by varying several parameters, producing the membrane and then measuring it.	
2024 – today	<b>Web Developer</b>	Self-Employed
	For ETH Zurich, Unbound Potential GmbH and expert Frank GmbH, I developed web applications (Next.js / Laravel) for process automation given the specification of my clients. This includes the initial development, bug fixing, new features, documentation and support.	

## Extracurricular Activities

2020 – 2020	<b>Internal Affairs</b>	VSETH - Association of Students at ETH
	In the VSETH board, I was responsible for all student associations, commissions, associated and recognized organizations. External relations were also part of my portfolio.	
2022 – 2024	<b>Vice President / President</b>	Polyband
	In Polyband, the big band of UZH and ETH, I was responsible for marketing and advertising, as well as for organizing some events like the rehearsal weekend or the fondue evening. Since I was also a pianist, I also took care of the set-up at concerts.	
2022 – 2023	<b>IT</b>	AMIV an der ETH - Academic Mech. and Elec. Engineers Association
	At AMIV, I managed the IT infrastructure with its server cluster and many applications. I also organized a semesterly coding weekend where we spent a weekend developing for AMIV's IT infrastructure.	