

# FELIX SPRINGER

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Germany ◊ Augsburg

## EDUCATION

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<b>Universität Augsburg</b>	October 2023 - today
<b>Bachelor of Science: Mathematics</b>	
<b>Leibniz Universität Hannover</b>	October 2016 - April 2021
<b>Bachelor of Science: Physics</b>	
Major subject: Physics	grade point average: 2.4
Minor subject: Computer Science	
Thesis: "Storage Register Design for an Ion Trap Quantum Processor"	
<b>Viktoria-Luise-Gymnasium Hameln</b>	July 2008 - June 2016
<b>General qualification for university entrance</b>	
Advanced courses: Physics, Mathematics, Geography	grade point average: 2.2

## WORK EXPERIENCE

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<b>Possehl Analytics GmbH</b>	April 2021 - September 2023
<b>Software Developer</b>	
<ul style="list-style-type: none"><li>• DevOps using Nix, Docker, git, AWS, Hetzner</li><li>• Backend-Programming in Haskell: servant, aeson, stm, mtl, megaparsec, wai, exceptions, ...</li><li>• Database rollout and maintenance: PostgreSQL, MongoDB</li><li>• Design and implementation of a customer-independent master data API</li></ul>	
<b>LUH: Institut für Quantenoptik</b>	February 2020 - March 2021
<b>Technical Supervisor</b>	
<ul style="list-style-type: none"><li>• Operation, installation and maintenance of media technologies</li><li>• Recording and editing videos of experiments for Physics lectures</li><li>• Event management</li></ul>	
<b>LUH: Institut für Botanik</b>	March 2019 - June 2020
<b>System Administrator</b>	
<ul style="list-style-type: none"><li>• Administration of the network and local servers</li><li>• Maintaining and providing personal computers</li><li>• Automating and monitoring data backup</li></ul>	
<b>LUH: Institut für Angewandte Mathematik</b>	October 2018 - February 2019
<b>Tutor</b> for the lecture "Mathematics 1 for Life Science and Earth Sciences"	
<ul style="list-style-type: none"><li>• Weekly tutoring a class according to the lecture</li><li>• Grading exercises and exams</li></ul>	

## PERSONAL PROJECTS

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<b>mensam</b> (still in development)	<a href="https://github.com/jumper149/mensam">github.com/jumper149/mensam</a>
is a <i>desk booking web application</i> for coworking spaces and offices. The backend is built with bleeding edge <i>Haskell</i> and the frontend is written in <i>Elm</i> . Everything is tied together with <i>Nix</i> . You can try out mens.am.	
<b>homepage</b> (actively used and maintained)	<a href="https://github.com/jumper149/homepage">github.com/jumper149/homepage</a>
is an <i>HTTP server</i> , that focuses on configurability. I am using this <i>Haskell</i> project for my personal homepage. It includes a Blog and <i>Atom Feed</i> , that is generated from <i>AsciiDoc</i> . The effect system is based on <i>mtl</i> , <i>monad-control</i> and a composable transformer stack. It provides a <i>NixOS module</i> via a <i>flake</i> .	
<b>go</b> (discontinued)	<a href="https://github.com/jumper149/go">github.com/jumper149/go</a>
is a strategy board game and this implementation extends the ruleset by providing different boards to play on. This is a <i>fullstack</i> project with an <i>HTTP server</i> and a <i>frontend web application</i> , that is compiled with <i>GHCJS</i> and uses a <i>WebSocket</i> to communicate with the server. It's written in <i>Haskell</i> , making use of various <i>extensions</i> to the type systems. It builds with <i>Nix</i> and integrates well with <i>NixOS</i> .	
<b>blugon</b> (still maintained)	<a href="https://github.com/jumper149/blugon">github.com/jumper149/blugon</a>
is a simple and configurable Blue Light Filter for <i>X11</i> . It's written mostly in <i>Python</i> and the main focus is to follow <i>*nix</i> standards.	

## TECHNICAL SKILLS

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<b>Languages</b>	German, English
<b>Programming languages</b>	Haskell, Idris, Python, Bash, C, Agda, Wolfram Mathematica, Scheme
<b>Software/Tools</b>	GNU Coreutils, Linux, Git, Nix, Vim, SSH, tmux, L <sup>A</sup> T <sub>E</sub> X, AsciiDoc, roff, SQL, HTML, CSS (LESS), JSON, POSIX, HTTP