

# FELIX SPRINGER

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## EDUCATION

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

## WORK EXPERIENCE

Possehl Analytics GmbH	April 2021 - today
Software Developer	
<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>	
LUH: Institut für Quantenoptik	February 2020 - March 2021
Technical Supervisor	
<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>	
LUH: Institut für Botanik	March 2019 - June 2020
System Administrator	
<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>	
LUH: Institut für Angewandte Mathematik	October 2018 - February 2019
Tutor 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

homepage (actively used and maintained)	github.com/jumper149/homepage
is an <i>HTTP</i> server, 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</i> module via a <i>flake</i> .	
go (discontinued)	github.com/jumper149/go
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</i> server 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> .	
blugon (still maintained)	github.com/jumper149/blugon
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

Languages	German, English
Programming languages	Haskell, Idris, Python, Bash, C, Agda, Wolfram Mathematica, Scheme
Software/Tools	GNU Coreutils, Linux, Git, Nix, Vim, SSH, tmux, $\LaTeX$ , roff, SQL, HTML, CSS, JSON, POSIX, HTTP