

# Philip Patsch

## Curriculum vitae

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## ABOUT ME

My name is Philip Patsch, I go by the nick Prof-patsch. I am a **hacker**, Unix geek and functional programmer. I also do systems integration with Nix(OS).

I am firmly rooted in the hacker/maker scene of Augsburg (Bavaria), where I helped build the local hackerspace over the course of three years.

## EDUCATION

2003–2012 **Secondary Education**  
BAVARIAN PREPARATORY SCHOOL  
*Wernher-von-Braun Gymnasium,*  
*later Deutscherren Gymnasium*

2012–2016 **Bachelor of Science**  
INFORMATICS & MULTIMEDIA  
*University of Augsburg*

## COMMUNICATION SKILLS

GERMAN Native speaker  
ENGLISH Oral: fair  
Written: good  
JAPANESE Advanced beginner

## MISC

BORN July 1993  
CITY Augsburg

## LANGUAGES

### Experienced

HASKELL advanced intermediate,  
favourite language  
NIX EXPRESSIONS expert  
PURESCRIPT frontend, close to Haskell  
BASH/SCRIPTING necessary evil

### Learned

SCALA medium-sized project  
PYTHON scripting & web services  
GO small work projects  
C \*nix-based  
JAVA university courses  
ELISP Emacs internals  
CLOJURE first functional language  
JAVASCRIPT whenever I need it

## Studying

OCAML MirageOS unikernels  
DHALL practical System F $\omega$   
ISABELLE proof assistant

## TOOLS

NIXOS DevOps  
\*NIX ADMINISTRATION The UNIX Way  
SYSTEMD The New Way  
CONTAINERS docker, nspawn, OCI  
GIT(HUB) always fix upstream

## SELECTED PROJECTS

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LATE 2015–MID 2016

EARLY 2013–ONGOING

Founding Member & Management

### *OpenLab Augsburg*

Co-Founded & helped grow **Openlab Augsburg**. With 100+ members on 140m<sup>2</sup> open space for technical, artistic and cultural projects & events it has become a central point of hacker culture in our city.

EARLY 2013–LATE 2015

Project Lead

### *Equestria Publications*

Design, publishing and print on a **book on candy-colored horses**.

With 4 core members, 25 proof-readers and over 1500 printed books it was quite an odyssey, but an interesting life experience nonetheless.

MID 2014

Python

### *Time Tracking Application*

Replacement for a company time tracking application, written in Python, as HTTP server/client architecture.

EARLY 2015–ONGOING

Organisator

### *Curry Club Augsburg*

Co-Founded **Curry Club Augsburg**, a 4-weekly meeting of FP & formal method enthusiasts. Each meeting consists of 2–3 talks of an hour or more (in German, **available on Youtube**), spanning diverse topics like functional methods, formal verification, category theory, interesting mathematical concepts, or Edward Kmett libraries.

Some leading experts in their fields (e.g. the Isabelle theorem prover) visit regularly, as well as guest speakers.

We host irregular multi-day workshops, e.g. on Introduction to Haskell or NixOS hackathons.

2015

Research

### *Bachelor's Thesis*

Thesis in the field of Organic Computing, "Integrating Digital Trust Management into a Computing Grid System". The system was written in Scala, and I integrated some prior work on pheromone-based trust into it, combined with theoretical elaboration on the topic.

Scala/Javascript

### *Master's Project*

The computing grid system of my Bachelor's Thesis was rewritten by its original author and I constructed a frontend, written in Scala and plain Javascript.

2016

Haskell/GHCJS

### *Customer Project*

Rewrite of an internal tool for contract management for a small mobile consultant company. Written in Haskell with Spock & GHCJS, with connection to an existing Microsoft Database and a custom browser frontend for data management.

2015–ONGOING

Core contributor

### *NixOS*

Regular contribution to the project in form of library improvements, community support and development of tooling (yarn2nix, testing, types). I attended both Nixcons and **gave a talk** at the 2017 conference.

Q3 2017–Q2 2018

DevOps

### *Center for the Cultivation of Technology*

Coordination of DevOps, built minimal docker containers with nix and set up the deployment.

## PASTIMES

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I listen to a wide variety of artists and try to expand my musical horizon constantly. Myself an amateur musician, I started playing the piano in my early teens. I have been playing in worship service at my local church for over a decade now, more recently as a leader.

I am trying to get into learning human languages again and have taken four semesters of Japanese university courses. I plan to pass JLPT N4 in late 2018/early 2019.

I have an interest in constructed languages, particularly **Lojban**, which I study with like-minded people from my local area.