

# 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.

## SO FAR

2018–ONGOING **Tweag, Consultancy**  
DEVOPS/HASKELL/NIX/RUST  
*Paris, France*

2017–2018 **Center for the Cultivation  
of Technology**  
JUNIOR DEV  
*Augsburg, Bavaria*

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

## COMMUNICATION SKILLS

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

## MISC

BORN July 1993  
CITY Augsburg

## LANGUAGES

### Experienced

HASKELL advanced intermediate,  
“getting things done”  
NIX EXPRESSIONS expert  
PURESCRIPT work experience  
RUST medium-sized project  
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 $\omega$   
FORTH odd one out

## TOOLS

NIXOS DevOps  
\*NIX ADMINISTRATION The UNIX Way  
SUPERVISION systemd, s6  
CONTAINERS docker, OCI  
GIT(HUB) always fix upstream  
CLOUD THINGS S3, EC2, terraform

## SELECTED PROJECTS

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Q3 2017–Q2 2018

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.

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** and **the 2019** conference.

2019–ONGOING

Customs Clearance Startup

### *Zeus Logics*

Built a modern **Customs Clearance/Brokerage system** for US ship container import. Written in Servant (Haskell), Purescript and Typescript. Responsible for setting up deployment with terraform (AWS) and Nix(OS).

The project was a true US startup experience, building a product from the ground up, with stakeholders, project manager and UX designers.

2019

Rust/Nix

### *Lorri*

**lorri** is a nix-shell replacement for project development. Commissioned by Target, lead by Graham Christensen. Made me learn and appreciate the Rust language.

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.

DevOps

### *Center for the Cultivation of Technology*

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

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

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.

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.

## PASTIMES

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I listen to a wide variety of artists and try to expand my musical horizon constantly. As 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 2021. Studying Mandarin is on the horizon.

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