

# JULIA LUNA

Python specialist, software engineer, embedded developer

@ me@julialuna.dev

they/she

Germany

## TECH

### What I like doing

#### Python



since 2012, building robust systems and interleaving with C for performance sometimes

#### Rust



not much experience yet, want to learn as new main low level language

#### Hardware



building physical devices with e.g. PCB design and 3D printing, and writing software for them this includes:

#### CAD / 3D Modeling



mainly using Fusion360, some experience in Blender, 3ds Max and OpenSCAD

### Will do for money

#### Web development



backend preferred

#### Other software dev



#### Sysadmin



see experience section

## NATURAL LANGUAGES

#### English



Native language

#### German



Native language

#### Spanish



Studied in school

Self assessment: **A2**

## COMPETITIONS

### Catalysts Coding Contest

[codingcontest.org](https://codingcontest.org)

2019-11-08

Worldwide level-based coding game.

- University of Salzburg: **1<sup>st</sup>** place
- Globally: **47<sup>th</sup>** place

## WORK

### Software Engineer

[rami.io](https://rami.io)

2020 – 2021

Remote

- worked on their main project, pretix, as a backend developer
- added several large features, some of which have been explicitly praised by customers
- used Python with Django for the backend, and HTML/JS with jQuery for the frontend

### Full stack Engineer

[nti-audio.com](https://nti-audio.com)

2019

Liechtenstein

- implemented an old data transmission protocol
- custom hardware audio interface running embedded linux to help with testing their upcoming x13 audio measurement device (successor to the [x12](#)).
- software for a Raspberry Pi to handle their entrance area TV

### Sysadmin

2016 – 2020

- volunteer work at my high school, administrating two servers
- maintained the school's website, mail server, Active Directory, and the file share/storage for 500 students

### Independent cybersecurity researcher

**under NDA**

2015 – 2018

Remote

- auditing various software and some critical infrastructure
- researching vulnerabilities in RF technologies

## EXPERIENCE

I have written software for the majority of my life, to fit needs of myself and people around me.

I'm fast at picking up new things, especially if I'm interested in them.

Projects include a web based school management tool (homework, timetables, grades, etc), a discord bot for managing a community, a custom firmware for [Watchy](#), and so much more.

Hardware caught my attention a few years after first teaching myself programming, and I built small things right around the time IoT became a thing, utilizing the ESP8266 chip for many projects, for example interfacing with an e-paper display over HTTP, or an internet enabled smart clock using WS2812B LEDs.

I have been running server infrastructure since 2016 (using a single Raspberry Pi behind a residential internet connection at the time). In 2019 this expanded to a VM inside Hetzner's datacenter, and since early 2020 I have been using a ProxmoxVE cluster in a different data-center. In 2021 I installed my own server in said datacenter.