Julia Luna

Software engineer, embedded developer

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TECH

I've been building software since 2012 and using many languages over the years. The ones I'm best at are **Rust** and **Python** (my current favorite and my first language, respectively). Other languages I've used a significant amount include **C**, **Java**, **PHP** and **JS**.

I consider myself a programming polyglot.

I have written high performance asynchronous code and consider myself highly experienced in this topic.

On the hardware side I have experience making PCBs with **KiCad**, using **3D printers** and **laser cutters**, 3D modeling with **Fusion360** and **Blender**.

I run **linux** servers, and know how to use **containers**, **VMs**, and automated deployment tools such as **Ansible** and **Colmena** (a **Nix** deployment tool).

NATURAL LANGUAGES

English
Native language

German
Native language

Spanish
Studied in school
Self-assessment: *A2*

COMPETITIONS

Catalysts Coding Contest
🔗 codingcontest.org
📅 2019-11-08

Worldwide level-based coding game.
- University of Salzburg: 1st place
- Globally: 47th place

WORK

Software Developer 2022-2023, Remote
🔗 BlaulichtSMS

- extending and maintaining the backend platform (Java)
- implementing a proxy for ELKOS-alarms in Rust

Software Engineer 2020 - 2021, Remote
🔗 rami.io

- 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 2019, Liechtenstein
🔗 NTi Audio

- implemented an old data transmission protocol
- custom hardware audio interface running embedded linux to help with testing their 🔗 XL3 Acoustic Analyzer
- software for a Raspberry Pi to handle their entrance area TV

Assistant Sysadmin 2016-2020, Austria

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

Independent security researcher 2015 - 2018, other people's servers
❌ under NDA

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

EXPERIENCE

I have written software for the majority of my life, solving problems and implementing creative project ideas. I'm fast at picking up new concepts, especially if I'm interested in them.

Software projects span a wide range of topics from embedded to web development. Some examples include 🔗 a qr-code generator for KiCad 7 , a discord bot for managing a community, a custom firmware for 🔗 Watchy , and a lot more.

Hardware: I built small things right around the time IoT became a thing, using the ESP chip family for many projects. In 2020 I started doing PCB design, notable projects include 🔗 my business card and 🔗 a 3ds usb-c charging board .

Ops: I currently have my own server hardware in a datacenter, and run a handful of services for a few dozen users.