

PESSI VIRTA

SOFTWARE ENGINEER

Berlin, Germany

I'm a graduate of Applied Biotech Engineering who changed over to software development in early 2019. I bring a generalist skillset, spanning technical abilities, soft skills, and systems thinking - rooted in both natural sciences and engineering practice. My background gives me a holistic approach to problem-solving and a genuine curiosity for learning new technologies. Please take a look at my portfolio projects below - the project titles work as links.

SKILLS

- Web Development with Ruby on Rails, Python, Javascript, TypeScript, Svelte, HTML, CSS, Sass, BEM, TailwindCSS, PostgreSQL, Hotwire, React, Webstudio, Bootstrap, RSpec, Capybara, Selenium, PHP
 - Machine Learning & AI Engineering with TensorFlow Keras, Pandas, ML Flow, FastAPI, Streamlit, Ollama
 - DevOps with GitHub, Heroku, GCP, Docker, Linux, AWS, Cloudflare, self-hosting etc.
 - Content Management with Craft CMS, Cargo
 - Geoinformatics with QGIS
 - CI/CD, OOP, TDD, Agile, AI-assisted coding
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EDUCATION

LE WAGON

Data Science & AI | 2024

Full-Stack Web Development | 2019

GADJAH MADA UNIVERSITY

Darmasiswa Scholarship | 2017

BERLIN TECHNICAL UNIVERSITY

MSc Brewing & Beverage Technology | 2016

HERIOT-WATT UNIVERSITY

BSc (Hons) Brewing & Distilling | 2011

EXPERIENCE

PROTOTYPE FUND

Grant recipient, project 'Carbonara' | 6/2025 - 12/2025

- Created an open-source VSCode plugin that will help developers reduce CO2 emissions from their software
- Written in TypeScript

MEIN GRUNDEINKOMMEN E.V.

Backend Developer, Partner | 5/2019 - 6/2023

- Maintained and developed features for 3 Rails apps and a React frontend, with up to 4M users
- Main tools: Ruby on Rails, React, GitHub, Heroku, SEPA, SMTP/IMAP (email), REST API, Miro, Holacracy

LE WAGON

Teaching Assistant | 4/2019 - 4/2019

- Taught Web Development at a bootcamp

FREELANCE

Web Developer | 4/2019 - 4/2019

- Worked with Cargo for the customer's portfolio website
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PORTFOLIO

METAZINE →

An experimental RSS feed client with Mastodon integration, Ruby on Rails

- Includes in-browser Text-to-Speech inference using WASM
- Self-hosted using Kamal

CANINE CLASSIFIER →

Identify dog breeds using Machine Learning, Streamlit & FastAPI

- Self-hosted with Docker

RECEITAS →

A home cookbook with a creative frontend, Craft CMS & three.js

- Self-hosted with Docker

TIMELINER & THYMELINE.JS →

Create and combine historical timelines, Ruby on Rails & TypeScript

- Self-hosted using Kamal

GAMEPAD →

Desktop-Smartphone Interaction concept, Elixir & JavaScript

- Proof-of-concept for using a smartphone as a controller

QGIS-OPENAQ →

OpenAQ API Plugin for QGIS, Python

- Supports QGIS versions 3 and 4

HYDRA-PHONE →

Smartphone UI for Hydra Live Coding Video Synth, TypeScript & React

- Smartphone UI for Hydra Live Coding Video Synth
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WORKING LANGUAGES

- Fluent in English, German and Finnish
 - Advanced in Portuguese, Swedish and Indonesian
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ONLINE

LINKEDIN

<https://www.linkedin.com/in/pessiv>

GITHUB

<https://github.com/pessi-v>

EMAIL

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