## Herman Bergwerf

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### Experience

### Freelance Developer

Bergwerf Labs

2023 - Present

On Location & Remote

# **Backend Engineer**

Omoda

Mar 2022 - Jul 2022

Remote

# codebase in Python. We developed a fully automated pipeline for editing, cropping, and selecting photos from the photography studio of Omoda.

Responsible for researching novel machine learning

techniques and implementing an image processing

**Software Engineer** 

CreativeQuantum

Aug 2017 - Dec 2021 Berlin, Germany

Lead designer and developer of a new, web-based chemical sketching program for the webChem platform. Using the Dart language I designed a modular event handling system and a top-notch rendering mechanism for chemical structures.

## Full Stack Developer

Learnbeat

Jan 2017 - Jun 2018 Leiden, Netherlands

I was asked to implement a chemical sketching program based on MolView.org in Learnbeat, which is used for digital education by over 500 highschools in the Netherlands.

## **Software Engineer**

**Profects** 

Aug 2014 - Dec 2016 Kapelle, Netherlands At Profects I helped to develop a microservice architecture for new projects based on Docker and Golang. One of our projects involved an email scheduler that sends thousands of customized pricelists to customers of Adri&Zoon to this day.

#### Education

#### Radboud University

MSc. Mathematical Foundations of Computer Science

2019 - 2023

MFoCS follows a long-standing research tradition at RU in logical and mathematical foundations of computing science.

Thesis: An Exploration of Graph Pebbling.

## **Delft University of Technology**

BSc. Nanobiology

2015 - 2019

Nanobiology is the study of the complexity of living systems. It employs the methods and principles of Physics to do this in a quantitative way.

Thesis: Nerve fiber tracing in brightfield images of human skin using deep learning.

#### Skills

Technical Documentation

Visual Communication

UI/UX Design

Formal Methods

Agile Development

DevOps & Cloud APIs

Database & Systems Design

3D Graphics & GPU Acceleration

#### Programming

JavaScript/TypeScript (experienced)

Python (experienced)

C/C++ (experienced) Dart (experienced)

Go (intermediate)

Java (intermediate)

Julia (intermediate) PHP (intermediate)

OCaml (intermediate)