Curriculum Vitae

Herman Bergwerf
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I am specialized in solving difficult logical problems and implementing the solutions in software. Visual communication plays a key role in many of my projects, and I enjoy designing beautiful and innovative interfaces. I like brainstorming together with a team to find the path towards a good product, and to make technical descisions that are future-proof. I have an academic background in biophysics, pure mathematics, and theoretical computer science.

Education

Degree	Programme	Institution
Bachelor	*Nanobiology*	Delft University of Technology
Master	*Mathematical Foundations of Computer Science*	Radboud University Nijmegen

Past Projects

Year	Client & Project	Technologies
2022	Omoda – ML/AI for Image Processing	*Python, MediaPipe, Tensorflow*
2017-21	CreativeQuantum – Chemical Diagrams	*Dart, HTML Canvas*
2017	Learnbeat – Molecule Sketching for Education	*JavaScript, NPM, HTML Canvas*
2016	Profects – Custom Mailing Scheduler	*Golang, PostgreSQL, Docker*

Academic Work

- *An Exploration of Graph Pebbling* (2023)
  Master's thesis supervised by Dr. Wieb Bosma. DOI: 10.48550/arXiv.2303.04590

- *Circular lists in Iris ∗ deduction rules of ▷* (2022)
  Research internship supervised by Dr. Robbert Krebbers. DOI: 10.5281/zenodo.6340500

- *Nerve fiber tracing in bright-field images of human skin using deep learning* (2019)
  Bachelor's thesis supervised by Dr. Erik Meijering. DOI: 10.1109/isbi.2019.8759504