

Herman Bergwerf	hbergwerf.nl	post@hbergwerf.nl
Experience	Backend Engineer Omoda Mar 2022 – Jul 2022 Remote	Responsible for researching novel machine learning techniques and implementing an image processing codebase in Python. We developed a fully automated pipeline for editing, cropping, and selecting photos from the photography studio of Omoda.
	Software Engineer CreativeQuantum Aug 2017 – Dec 2021 Berlin, Germany	Lead designer and developer of a new, web-based chemical sketching program for the <i>webChem</i> 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 <i>Learnbeat</i> , which is used for digital education by over 500 highschools in the Netherlands.
	Software Engineer Profects Aug 2014 – Dec 2016 Kappelle, 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 <i>Adri&Zoon</i> to this day.
Education	Radboud University MSc. <i>Mathematical Foundations of Computer Science</i> 2019 – 2023	MFoCS follows a long-standing research tradition at RU in logical and mathematical foundations of computing science. Thesis: <i>An Exploration of Graph Pebbling.</i>
	Delft University of Technology BSc. <i>Nanobiology</i> 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: <i>Nerve fiber tracing in brightfield images of human skin using deep learning.</i>
Skills	Visual Communication Agile Development Creative Writing User Experience Formal Methods Database Design 3D Graphics DevOps	Programming JavaScript/TypeScript (experienced) Python (experienced) C/C++ (experienced) Dart (experienced) Julia (intermediate) OCaml (intermediate) Golang (intermediate) PHP (intermediate) Java (intermediate)