



ROY VOETMAN

Cloud Technologies · Teaching · Artificial Intelligence
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EXPERIENCE

Cloud Solutions Engineer

Jul 2022 | Present

RDW · Full-time

- Developer for the Cloud Integration Platform (CIP).
- Skills: C#, Visio, Azure API Management, Azure Functions

Software Engineer

Feb 2022 | Jul 2022

CGI · Internship

- Conducted research on practical applications of quantum computing for business.
- Developed a PoC for executing and comparing traditional and quantum ML algorithms.
- Skills: Machine Learning, Qiskit, Scikit-Learn, Azure Functions, Python

Software Engineer

Feb 2021 | Jul 2021

Self Driving Challenge · Internship

- Led a team of 5 engineers in developing self-driving software for autonomous vehicle control.
- Implemented a codebase redesign for improved maintainability and portability.
- Skills: C++, NVIDIA Drive, Carla Simulator, PID Controllers

Back-end Developer

Feb 2021 | Jul 2021

Noardcode · Part-time

- Developed back-ends for various clients, translating customer requirements into code.
- Skills: Laravel, PHP, PHPUnit, MariaDB, JS, jQuery, Redis

Web Developer

Oct 2017 | Dec 2019

Learn and Believe · Freelance

- Developed single page applications ensuring that clients' visions and requirements were met.
- Skills: JS, Vue, JWT, REST APIs

PHP Developer

Sep 2016 | Jul 2017

OSG Piter Jelles · Internship

- Engineered a web-based voting system for co-control board elections.
- Skills: PHP, MSSQL, JS, JQuery

EDUCATION

MSc, Computer Vision & Data Science

2022 | 2023

NHL Stenden University of Applied Sciences

Graduated Cum Laude

BSc, Software Engineering

2018 | 2022

Hanze University of Applied Sciences Groningen

GPA: 4.0 of 4.0 (US scale), Average grade: 8.9 (EU scale)

MBO 4 Application Development

2015 | 2018

Friesland College

CERTIFICATIONS

Architecture, Algorithms, and Protocols of a Quantum Computer https://courses.edx.org/certificates/8d08b530ca03441c9a5bfdc7df039c13	TU Delft edX May 2022
Machine Learning https://www.coursera.org/account/accomplishments/verify/A8WTKWR2MKY8	Stanford Coursera May 2022
VWO Wiskunde B (Mathematics for the hard sciences) https://www.royvoetman.nl/credentials/wiskunde-b.pdf	Utrecht University Boswell-Bèta Aug 2021
Computer Science for Artificial Intelligence https://credentials.edx.org/credentials/b251ddf835104f99ab00a67918f55d04/	Harvard edX Sep 2020
Certified Laravel Developer https://exam.laravelcert.com/is/roy-voetman/certified-since/2020-02-11	Laravel Feb 2020

SKILLS

Programming Languages:	PHP, JavaScript, C, C++, Java, Python, MySQL & MSSQL
Industry Knowledge:	Software Documentation, Agile Methodologies, Design Patterns & Principles
Interpersonal Skills:	Public Speaking, Team Leadership, Time Management
Languages:	Dutch (<i>Native proficiency</i>), English (<i>Full professional proficiency</i>)

ANCILLARY POSITIONS

Educational Content Creator <i>Open Source CS</i> – Creating mathematically orientated explainers tailored for computer science students. https://www.youtube.com/OpenSourceCS	Aug 2021 Present
Guest Lecturer <i>Noorderpoort</i> – Instructed an intensive two week study program on working with PHP and Laravel.	Jun 2022 Jun 2022
Teaching Assistant <i>Hanze University of Applied Sciences Groningen</i> – Hosted labs, recitation hours, and graded problem sets.	Sep 2019 Feb 2022
Study Support Instructor <i>Study Association RealTime</i> – Hosted exam preparation sessions for all programming related first-year courses.	Nov 2019 Feb 2022

PUBLICATIONS

Identification of Potato Virus Y in Potato Plants using Deep Learning and GradCAM Verification Roy Voetman, Willem Dijkstra, Jeroen E. Wolters, and Klaas Dijkstra	Springer Sep 2023 doi:10.5555/00000000
Using Diffusion Models for Dataset Generation: Prompt Engineering vs. Fine-tuning Roy Voetman, Alexander van Meekeren, Maya Aghaei, and Klaas Dijkstra	Springer Sep 2023 doi:10.5555/00000000
The Big Data Myth: Using Diffusion Models for Dataset Generation to Train Deep Models Roy Voetman, Maya Aghaei, and Klaas Dijkstra	arXiv Jun 2023 arXiv:2306.09762

PROJECTS

GitLab API Client for PHP https://github.com/RoyVoetman/flysystem-gitlab-storage A PHP package that has over 10.000 downloads on GitHub.	Open Source Library
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