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 Mar 2018 | Feb 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 · TU Delft | edX
https://courses.edx.org/certificates/8d08b530ca03441c9a5bfdc7df039c13 · May 2022

Machine Learning · Stanford | Coursera
https://www.coursera.org/account/accomplishments/verify/A8WTKWR2MKY8 · May 2022

VWO Wiskunde B (Mathematics for the hard sciences) · Utrecht University | Boswell-Bèta
https://www.royvoetman.nl/credentials/wiskunde-b.pdf · Aug 2021

Computer Science for Artificial Intelligence · Harvard | edX
https://credentials.edx.org/credentials/b251ddf835104f99ab00a67918f55d04/ · Sep 2020

Certified Laravel Developer · Laravel
https://exam.laravelcert.com/is/roy-voetman/certified-since/2020-02-11 · 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 *(Native proficiency)*, English *(Full professional proficiency)*

ANCILLARY POSITIONS

Educational Content Creator · Aug 2021 | Present
Open Source CS

– Creating mathematically orientated explainers tailored for computer science students.
https://www.youtube.com/OpenSourceCS

Guest Lecturer · Jun 2022 | Jun 2022
Noorderpoort

– Instructed an intensive two week study program on working with PHP and Laravel.

Teaching Assistant · Sep 2019 | Feb 2022
Hanze University of Applied Sciences Groningen

– Hosted labs, recitation hours, and graded problem sets.

Study Support Instructor · Nov 2019 | Feb 2022
Study Association RealTime

– Hosted exam preparation sessions for all programming related first-year courses.

PUBLICATIONS

Identification of Potato Virus Y in Potato Plants · Springer
using Deep Learning and GradCAM Verification · Sep 2023
Roy Voetman, Willem Dijkstra, Jeroen E. Wolters, and Klaas Dijkstra · doi:10.5555/00000000

Using Diffusion Models for Dataset Generation: · Springer
Prompt Engineering vs. Fine-tuning · Sep 2023
Roy Voetman, Alexander van Meekeren, Maya Aghaei, and Klaas Dijkstra · doi:10.5555/00000000

The Big Data Myth: Using Diffusion Models for · arXiv
Dataset Generation to Train Deep Models · Jun 2023
Roy Voetman, Maya Aghaei, and Klaas Dijkstra · arXiv:2306.09762

PROJECTS

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