ROY VOETMAN

Cloud Technologies · Teaching · Artificial Intelligence
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EXPERIENCE

Cloud Solutions Engineer
RDW · Apprenticeship
Jul 2023 | Present

- Developer for the Tol Collection System.
- A committed member of the Cloud Architecture Board.
- Developer for the Cloud Integration Platform.
- Skills: `Machine Learning, Qiskit, Scikit-Learn, Azure Functions, Python`

Software Engineer
CGI · Internship
Feb 2022 | Jul 2022

- 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
Self Driving Challenge · Internship
Feb 2021 | Jul 2021

- 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
Noardcode · Part-time
Mar 2018 | Feb 2021

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

Web Developer
Learn and Believe · Freelance
Oct 2017 | Dec 2019

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

PHP Developer
OSG Piter Jelles · Internship
Sep 2016 | Jul 2017

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

EDUCATION

MSc, Computer Vision & Data Science
NHL Stenden University of Applied Sciences
2022 | 2023

Graduated Cum Laude

BSc, Software Engineering
Hanze University of Applied Sciences Groningen
2018 | 2022

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

MBO 4 Application Development
Friesland College
2015 | 2018

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, SQL
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

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:10.1007/978-3-031-44237-7_14

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

Identification of Potato Virus Y in Potato Plants — NHL Stenden
using Deep Learning and GradCAM Verification — Mar 2023
Roy Voetman, Willem Dijkstra, Jeroen E. Wolters, and Klaas Dijkstra — www.cvds-nhlstenden.com

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.