

 $\label{eq:cloud} Cloud \ Technologies \cdot Teaching \cdot Artificial \ Intelligence \\ royvoetman@outlook.com \cdot cs-library.com \cdot github.com/RoyVoetman \\$

EXPERIENCE

Cloud Solutions Engineer

Jul 2023 | Present

 $RDW \cdot Full$ -time

- Developer for the Tol Collection System.
- A committed member of the Cloud Architecture Board.
- Developer for the Cloud Integration Platform.
- Skills: C#, OAuth, Durable Functions, Visio, TSQL

Software Engineer

Feb 2022 | Jul 2022

 $CGI \cdot Internship$

- 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

 $Self\ Driving\ Challenge\cdot Internship$

- 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

 $Noardcode \cdot Part$ -time

- 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

Sep 2016 | Jul 2017

 $OSG\ Piter\ Jelles\cdot\ Internship$

- 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

TU Delft | edX Architecture, Algorithms, and Protocols of a Quantum Computer

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.cs-library.com/credentials/wiskunde-b.pdf

Aug 2021

Computer Science for Artificial Intelligence

Harvard | edX Sep 2020

https://credentials.edx.org/credentials/b251ddf835104f99ab00a67918f55d04/

Certified Laravel Developer

Laravel

https://cs-library.com/laravel-certificate.pdf

Feb 2020

SKILLS

Programming Languages: C#, JavaScript, C, PHP, Java, Python, SQL

Software Documentation, Agile Methodologies, Design Patterns & Principles Industry Knowledge:

Public Speaking, Team Leadership, Time Management Interpersonal Skills:

Dutch (Native proficiency), English (Full professional proficiency) Languages:

Ancillary Positions

Educational Content Creator

Aug 2021 | Present

CS Library

- Creating mathematically orientated explainers tailored for computer science students. https://www.youtube.com/@CS-Library

Guest Lecturer Jun 2022 | Jun 2022

Noorderpoort

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

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

- 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 Sep 2023

Prompt Engineering vs. Fine-tuning

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

Roy Voetman, Alexander van Meekeren, Maya Aghaei, and Klaas Dijkstra

arXiv

The Big Data Myth: Using Diffusion Models for 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 using Deep Learning and GradCAM Verification

Springer

Roy Voetman, Willem Dijkstra, Jeroen E. Wolters, and Klaas Dijkstra

Mar 2023 doi:10.1007/978-3-031-47724-9 16

The practical prospects of quantum computing for enterprises

Bits & Chips

Oct 2022

Jordi Mellema and Roy Voetman

https://bits-chips.nl/article/the-practical-prospects-of-quantum-computing-for-enterprises/