



# ROY VOETMAN

Web Technologies · Teaching · Artificial Intelligence

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## EXPERIENCE

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### Software Engineer

Feb 2022 | Present

*CGI · Graduation Internship*

- Researching the practical applications of quantum computing for businesses.
- Created a PoC where traditional and quantum ML algorithms can be executed and compared.
- Skills: Machine Learning, Qiskit, Scikit-Learn, Azure Functions, Python

### Software Engineer

Feb 2021 | Jul 2021

*RDW · Internship*

- Lead a team of 5 software/network engineers to develop self-driving software to control a kart.
- Devised a redesign for a legacy codebase focused on maintainability and portability.
- Skills: C++, NVIDIA Drive, Carla Simulator, PID Controllers

### NoardCode

#### ● Back-end Developer · Part-time

Jun 2018 | Feb 2021

- Initiated the migration of proprietary packages to open source packages.
- Optimised the runtime of PHP scripts by inspecting Database/ORM calls.
- Skills: Laravel, PHP, PHPUnit, MariaDB, JS, jQuery, Redis

#### ● Laravel Developer · Internship

Mar 2018 | Jun 2018

- Assignment: engineered an application that extracts ePub files (ebooks) and automatically classifies the content into different categories (e.g. Headings, Paragraphs, Images).

### Freelance Web Developer

Oct 2017 | Dec 2019

*Learn and Believe*

- 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*

- Assignment: engineered and presented a web-based election system for the Co-Control Board to audiences including senior executives and stakeholders.
- Skills: PHP, MSSQL, JS, JQuery

## EDUCATION

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### NHL Stenden University of Applied Sciences

2022 | 2023

MSc, Computer Vision & Data Science

### Hanze University of Applied Sciences Groningen

2018 | 2022

BSc, Software Engineering

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

*Nominated for the Thesis Award with my thesis on: "the practical applications of quantum computing for businesses"*

### Friesland College

2015 | 2018

MBO 4 Application Development

## CERTIFICATIONS

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

## SKILLS

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Programming Languages:	PHP, JavaScript, C, C++, Java, Python, MySQL & MSSQL
Frameworks & Libraries:	Laravel, PHPUnit, Vue.js & jQuery, NVIDIA DriveWorks
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

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<b>Educational Content Creator</b> <i>Open Source CS</i>	Aug 2021   Present
– Creating mathematically orientated explainers tailored towards computer science students. <a href="https://www.youtube.com/watch?v=yDXk3Fi6b_A">https://www.youtube.com/watch?v=yDXk3Fi6b_A</a>	
<b>Guest Lecturer</b> <i>Noorderpoort</i>	Jun 2022   Present
– Hosted an intensive two week study program on working with PHP and Laravel.	
<b>Teaching Assistant</b> <i>Hanze University of Applied Sciences Groningen</i>	Sep 2019   Feb 2022
– Hosted labs and graded problem sets for Hanze's part-time IT bachelors programme. – Hosted recitation hours for PGM1 & PGM2, Hanze's introduction to computer science courses. – Hosted a weekly study lab session for the web programming with PHP course.	
<b>Study Support Instructor</b> <i>Study Association RealTime</i>	Nov 2019   Feb 2022
– Hosted exam preparation sessions for all programming related first-year courses.	

## PROJECTS

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<b>GitLab API Client for PHP</b> <a href="https://github.com/RoyVoetman/flysystem-gitlab-storage">https://github.com/RoyVoetman/flysystem-gitlab-storage</a> A PHP package that has <b>over 8.000</b> downloads on GitHub.	Open Source Library
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## AWARDS

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<b>Finalist Open-Source 911 for Digital Space Challenge 2020</b> Second place in the Odyssey Momentum hackathon, with our team Hanze Rocks 2.0.	Odyssey Hackathon
<b>Finalist Web Designer Skills Heroes 2018</b> Skills Heroes is a competition for MBO students.	WorldSkills Netherlands