



# 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.
- Creating a PoC for the use case of quantum machine learning where data can be clustered via traditional and quantum algorithms.
- Application stack: 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.
- Grade: 10/10, Application stack: 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.
  - Application stack: 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.
- Application stack: JS, Vue.js, 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.
- Application stack: 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)*

**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
<ul style="list-style-type: none"><li>– 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></li></ul>	
<b>Teaching Assistant</b> <i>Hanze University of Applied Sciences Groningen</i>	Sep 2019   Feb 2022
<ul style="list-style-type: none"><li>– Hosted labs and graded problem sets for Hanze's part-time IT bachelors programme. (2021-Present)</li><li>– Hosted recitation hours for PGM1 &amp; PGM2, Hanze's introduction to computer science courses. (2020-2021)</li><li>– Hosted a weekly study lab session for the web programming with PHP course. (2019-2020)</li></ul>	
<b>Study Support Instructor</b> <i>Study Association RealTime</i>	Nov 2019   Feb 2022
<ul style="list-style-type: none"><li>– Hosted exam preparation sessions for all programming related first-year courses.</li></ul>	

## 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 7.900</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