



# ROY VOETMAN

Web Technologies · Teaching · Artificial Intelligence  
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## EXPERIENCE

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### Software Engineer *RDW · Internship*

Feb 2021 | Jul 2021

- Lead a team of 5 software/network engineers to compete in the Self Driving Challenge 2021.
- Researched and implemented mathematical concepts from autonomous vehicle literature.
- Devised a redesign for a legacy codebase focused on maintainability and reusability.
- Grade: 10/10, Application stack: **UML, C++, NVIDIA Drive, Carla**

### 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 *Learn and Believe*

Oct 2017 | Dec 2019

- Developed single page applications ensuring that clients' vision and requirements were met.
- Application stack: **JS, Vue.js, JWT, REST APIs**

### PHP Developer *OSG Piter Jelles · Internship*

Sep 2016 | Jul 2017

- 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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### Hanze University of Applied Sciences Groningen

2018 | 2022

BSc., Information & Communication Technology · Software Engineering

*Current GPA: 4.0 of 4.0 (US scale), Average grade: 8.8 (EU scale)*

### Friesland College

2015 | 2018

MBO 4 Application Development

## CERTIFICATIONS

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<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>	HarvardX   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
<b>Web Security Specialist</b> <a href="https://www.certifiedsecure.com/profile/CS-29111671341">https://www.certifiedsecure.com/profile/CS-29111671341</a>	Certified Secure Apr 2018

## 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>Professional working proficiency</i> )

## PROJECTS

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<b>Blockchain System</b> <a href="https://github.com/hanze-2021-project/ec-node">https://github.com/hanze-2021-project/ec-node</a> Co-Engineered a PoC for a decentralised monetary system	Digital Society Hub
<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 7.200</b> downloads on GitHub.	Open Source Library

## ANCILLARY POSITIONS

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<b>Teaching Assistant</b> <i>Hanze University of Applied Sciences Groningen</i>	Sep 2019   Present
<ul style="list-style-type: none"><li>– Hosting labs and grading 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   Present
<ul style="list-style-type: none"><li>– Hosting exam preparation sessions for all programming related first-year courses.</li></ul>	

## 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