



ROY VOETMAN

Web Technologies · Teaching · Artificial Intelligence
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EXPERIENCE

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

NHL Stenden University of Applied Sciences

2022 | 2023

MSc, Computer Vision & Data Science

Hanze University of Applied Sciences Groningen

2018 | 2022

BSc, Software Engineering

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

Friesland College

2015 | 2018

MBO 4 Application Development

CERTIFICATIONS

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

SKILLS

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

Educational Content Creator <i>Open Source CS</i>	Aug 2021 Present
<ul style="list-style-type: none">– Creating mathematically orientated explainers tailored towards computer science students. https://www.youtube.com/watch?v=yDXk3Fi6b_A	
Teaching Assistant <i>Hanze University of Applied Sciences Groningen</i>	Sep 2019 Feb 2022
<ul style="list-style-type: none">– Hosted labs and graded problem sets for Hanze's part-time IT bachelors programme. (2021-Present)– Hosted recitation hours for PGM1 & PGM2, Hanze's introduction to computer science courses. (2020-2021)– Hosted a weekly study lab session for the web programming with PHP course. (2019-2020)	
Study Support Instructor <i>Study Association RealTime</i>	Nov 2019 Feb 2022
<ul style="list-style-type: none">– Hosted exam preparation sessions for all programming related first-year courses.	

PROJECTS

GitLab API Client for PHP https://github.com/RoyVoetman/flysystem-gitlab-storage A PHP package that has over 7.700 downloads on GitHub.	Open Source Library
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AWARDS

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