



ROY VOETMAN

Web Technologies · Teaching · Artificial Intelligence
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EXPERIENCE

Software Engineer

Sep 2021 | Present

Digital Society Hub

- Engineering a PoC for a decentralised monetary system (blockchain)
- Researching cryptographic applications such as asymmetric cryptography and Merkle trees
- Investigated a variety of consensus algorithms and studied their technical feasibility.
- Application stack: **Java, JUnit, NodeJS, SQLite, Docker**

Software Engineer

Feb 2021 | Jul 2021

RDW · Internship

- 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

Oct 2017 | Dec 2019

Learn and Believe

- Developed single page applications ensuring that clients' vision 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

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

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/	HarvardX edX Sep 2020
Certified Laravel Developer https://exam.laravelcert.com/is/roy-voetman/certified-since/2020-02-11	Laravel Feb 2020
Web Security Specialist https://www.certifiedsecure.com/profile/CS-29111671341	Certified Secure Apr 2018

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>Professional working proficiency</i>)

OPEN-SOURCE PROJECTS

Gitlab API Client for PHP
<https://github.com/RoyVoetman/flysystem-gitlab-storage>
A PHP package that has **over 7.000** downloads on Github.

ANCILLARY POSITIONS

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

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