

# Ruben van Nieuwpoort

# Software developer

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## About me

Analytic with a broad interest in technical topics. Passion for learning and teaching. Thrives when working in a small, multidisciplinary team in a stimulating environment.

## Experience

April 2023 - Current

Infi, Utrecht Software developer

Infi makes apps, websites, and web applications.

- Worked on various websites and web applications, both for customers and internally.
- Solving bugs, maintenance, and setting up new websites and applications.
- Worked with Azure, C#.NET, TypeScript, SQL, Node.js, React, and Vue
- Worked as tester of websites and mobile apps.

Sep 2020 - Dec 2022

Optiver, Amsterdam Software developer

Optiver is a high-frequency trading firm operating worldwide, predominantly acting as a market maker.

#### Compliance tech

The compliance tech team is responsible for automating many compliance tasks (recordkeeping, surveillance, reporting).

- Mostly worked with Python 3, otherwise used C++, Postgres, and AWS.
- Responsible for SFTR reporting and setting up a new SFTR pipeline.
- Responsible for introducing an application that detects transactions in sanctioned products.

#### Options research & data

The options research and data team is responsible for the data used by research and trading.

- Mostly worked with C++, Python, and Postgres.
- Responsible for an application used for calculating trade metrics. Implemented various features and refactored the application to use a different internal framework.

Jun 2019 - Aug 2020

Altium TASKING, Amersfoort *Software developer* 

TASKING develops IDEs and toolchains for embedded systems used in the automotive industry. Worked on various toolchains used in TASKING products, mostly compilers.

- Implemented an automated procedure to find compiler bugs
- · Implemented a framework to check the test coverage

Worked on Linux, and regularly wrote C, bash, and Python. Also worked with C++ and assembly languages in various architectures (TriCore, ARM, 8051, and others).

Oct 2017 - May 2019

Betabit, Utrecht

Junior consultant

Received training in C#.NET, SQL, and various front-end technologies such as HTML, CSS, JavaScript, TypeScript, and Angular. Worked at two clients.

#### Insurance company

Worked in a multidisciplinary team of actuaries and programmers on a model for market value projection.

- Worked on the architecture and implementation of model and database
- Reduced runtime of shadowmodel tests from 30+ minutes to less than a minute, improving the efficiency of the team
- Teached various programming topics to actuaries

#### Electronics retailer

Worked on the product management system, which was transitioning from a monolithic system to microservices.

- Troubleshooting users
- Lead the technical side of the transition to a new product information supplier

Apr 2013 - Nov 2014

Utrecht University, Utrecht *Teaching assistant* 

Worked as a teaching assistant for several courses. Responsibilities included instructing students and grading homework and lab assignments.

#### Game programming

In the course 'game programming', students are expected to program simple games in C#, using XNA game studio.

## Web design

This course serves as an introduction to programming for the web in HTML, CSS, JavaScript, and PHP.

#### Calculus A

The course 'Calculus A' is the introduction to university-level calculus, and very important in the mathematics curriculum.

## Education

Sep 2016 - Dec 2017 TU Delft and Maxeler Technologies

Master thesis: "Solving Poisson's equation using dataflow

computing"

Implemented an experimental finite element implementation on an

FPGA. For the implementation, Maxeler's high-level synthesis

framework based on dataflow computing was used.

Sep 2014 - Dec 2017 TU Delft

MSc Applied Mathematics

Sep 2014 - Dec 2017 TU Delft

MSc Computer Engineering

Sep 2011 - Jul 2014 Utrecht University

BSc Mathematics

Sep 2010 - Jul 2014 Utrecht University

BSc Computer Science

Sep 2004 - Jun 2010 Christelijk Gymnasium Utrecht

Pre-university education

## **Skills**

General Professional experience with scrum and agile. Experience with

scientific computing and knowledge of high-frequency trading.

Technology Familiar with **Azure** programming on **Linux** and **Windows**. Some experience with **DevOps** and **Linux system administration** basics.

Application programming and scripting and scripting and scripting and scripting and scripting bash.

Web programming Familiar with HTML, CSS, TypeScript and JavaScript (both on the frontend and on the backend). Experience with programming Web

APIs in C#.NET.

Other Knowledge of hardware, the hardware description language VHDL,

and communication protocols such as UART, I2C, and SPI.

# Other

Apr 2018 - Sep 2018 New Dutch Connections, Utrecht

Voluntary work

Jan 2014 - Jun 2014 UC Santa Barbara, Santa Barbara

Exchange program

Hobbies

Athletics, bouldering, climbing, playing the drums. Tinkering with operating systems, software, and electronics. Mathematics, reading, writing.