Léon van Velzen

Birthdate: 01/10/1997
Email: leonvanvelzen@protonmail.com
Phone: +31 647904940
Github: github.com/leon-vv
Website: leonvv.me
Location: Leiden
Languages: Dutch, English, Italian

Personal

Known by friends as an avid traveler, a motivated student and a good companion.

My passion for travel led me to cross all of New-Zealand on a bicycle with my former girlfriend, both armed with nothing more than a backpack. As a student I joined a travel society and became good friends with like-minded people. Recently my passion for travel made me take up the challenge of living and studying in a different continent as an exchange student at the University of British Columbia.

The only thing coming close to my passion for travel, is my love for understanding. At a young age this drive made me study the workings of computers. This led to a deep understanding of computer systems and programming languages. Always seeking a more difficult challenge, I commited to understand the universe, which meant becoming a physicist.

Work Experience

2015 - 2017, ChannelEngine (C#)   www.channelengine.com
- Supported a small team in scaling the company and improving its architecture
- Greatly improved the efficiency of the import and export of product data that flows through the system daily
- Designed and implemented most of the new (version 2.0) API
- Integrated third party marketplaces like Bol.com, CDiscount and Ebay to our platform
- Various front-end work

Education

2017-2020, Physics Bachelor, Leiden University
- Followed Advanced Theory Track (extracurricular problems sets)
- Graduation most likely cum laude (current average 8.9)

- Bachelor Thesis on 'Laser Induced Plasma' with a scientific publication following in the summer

2019, University of British Columbia (Canada), exchange program
- Followed courses in engineering, maths and physics (average 8.8)
- Improved English speaking skills

2018, Circuits and Electronics (1, 2 & 3) edX online course, provided by MIT

2017-2018, Physics Propedeuse, Leiden University
- Cum laude (average 8.9)

2017-2018, Computer Science Propedeuse, Leiden University
- Cum laude (average 9.1)

2016, Pre-University Classes Computer Science, Leiden University

2010 - 2016, Atheneum, Visser 't Hooft Lyceum Leiden
- Graduated magna cum laude (average 8.7)
- National three-hour mathematics final exam made without error

Software Projects

Pyka Programming Language (work in progress)   github.com/leon-vv/Pyka
Using 'first class environments' the Pyka language can elegantly combine dynamic and lexical scoping and even reproduce the meta programming system of Common Lisp.
Written in Python and Pyka (a Lisp language).

To-do   github.com/leon-vv/Todo
By expressing a subset of the SQL database language in a dependent type system this project illustrates how advanced proofs about database access can be verified at compile time.
Written in Idris.

Other, smaller, projects can be found on my Github page.