

Martijn F. W. van der Veen

PERSONAL *Born:* August 1989
Amsterdam (Dutch nationality) *E-mail:* martijn.vderveen [at] gmail.com
Residence: Vancouver, Canada *Website:* <https://turiphro.nl>

TL;DR: BSc artificial intelligence, MSc computer vision & graphics
startup founder & CTO (4yrs), Amazon (1yrs+); 5yrs+ industry experience

PROFESSIONAL EXPERIENCE **Software Development Engineer**
Amazon, Vancouver, Canada
March 2017 - Present

Alexa Smart Home NLU (February 2018 - Present)

Part of the natural language understanding team of the Smart Home org, working closely together with Alexa NLU and ASR in building services and models to improve the state-of-the-art in NLP and home assistants. Delivered both deterministic and stochastic models.

Technologies: Python, Spark, EC2/EMR, git, SOA, internal Amazon tools

Delivery Experience, Amazon Retail (March 2017 - February 2018)

Part of a small team with large customer-facing responsibilities and a service handling 16BN requests a day. Worked on launching new delivery programs (e.g., Amazon Key), optimising service efficiency (resulting in \$1.5M savings on a yearly basis), peak days preparations, OnCall, and (re)building the team.

Technologies: Java (Spring, Lombok, Mockito), EMR/Hive, git, SOA, internal Amazon tools (fleet management, continuous delivery, release management, extensive testing frameworks, metrics & dashboards)

Co-Founder

Zazzy, Amsterdam, The Netherlands
March 2013 - December 2016 (3yrs 9mos)

End-to-end e-Commerce platform for personalised products, including online tools for easy designing/customisation. Built on top of professional 3D printing services (metals) and laser-cutting. Full platform includes easy-to-use design wizards, custom built e-Commerce platform, production management, assembly, and drop-shipping.

- Hired and built a team of 8+ people
- Raised angel capital (from founders of eBuddy, Hyves, vakantievelingen, a.o.)
- Partnership with HEMA (largest Dutch non-food retailer), introduced 3D printing to Dutch market
- Developed state-of-the-art software for custom product design - on-the-fly creation of printable 3D models, photo-realistic rendering, converting customer images (drawings, faces) into professional, issue-free, products
- Designed and set up scalable render farm (500k+ renders generated)
- Part of Rockstart Accelerator 2013

Technologies: Django, Blender, OpenCV, Python (NumPy, Scrapy, Flask), MySQL, MongoDB, Docker, Wercker (CI), Sentry, PHP, REST APIs, websockets, Google Cloud Platform, Azure Cloud, git, Kissmetrics, 3D printers, CAD design

Engineer (Volunteer)

The Things Network, Amsterdam, The Netherlands

August 2015 - October 2016 (2yrs 3mos · part-time)

Building a crowd-sourced open data-network for the Internet of Things

- Implemented main website & community portal
- Worked with team on global expansion (global community, global network)
- Built first prototype (featured on Dutch national news)

Technologies: Django, Docker, Arduino, C, Go

Programmer

Stichting Studiebegeleiding Leiden, Leiden, The Netherlands

August 2009 - March 2013 (3yrs 8mos · part-time)

- Designed and implemented main websites and internal tools
- Managed online advertisement campaigns

Technologies: PHP, MySQL, Python, VBA

- TECHNICAL SKILLS
- Solid Experience in Computer Vision (*3d reconstruction, depth vision, image processing*) and Computer Graphics (*3D models, rendering engines*), Artificial Intelligence / Machine Learning, DevOps (*Linux setup & management, load balancers, CI, metrics*), Web Development (*Backend, some Frontend and UI/UX*)
 - Computer languages: C, C++, Python, Java, JavaScript, PHP, SQL, PROLOG
 - Solid Experience with Tools/Libraries: Unix/Linux and CL, git, Matlab, OpenCV, OpenGL, PCL, Django, Flask, Blender, NumPy, MySQL, MongoDB, Docker, Wercker (CI), Sentry, REST APIs, websockets, Google Cloud Platform, Azure Cloud, Arduino, 3D printers
 - Some experience (*side-project, book, mooc*): TensorFlow, MXNet, Hadoop, Go, Scala, Ruby, Clojure, Erlang, Meteor, ReactJS, D3js, Unity3D, GPUs, VHDL

EDUCATION

University College London, London, United Kingdom

MSc. Computer Graphics, Vision and Imaging (with distinction)

September 2011 - September 2012

Dissertation topic: Automatic 3D reconstruction of difficult outdoor scenes

University of Amsterdam, Amsterdam, The Netherlands

BSc. Artificial Intelligence (with distinction, with honour)

September 2008 - August 2011

Dissertation topic: Autonomously navigating drones (trained with reinforcement learning)

University of Technology Delft, Delft, The Netherlands

Electrical Engineering (half of BSc; extra during BSc AI)

September 2009 - August 2011

HOBBIES AND INTERESTS

I enjoy DIY projects which combine creativity, electronics and software. I have been a member of various so-called 'hackerspaces' or 'makerspaces' that facilitate the birth, making and sharing of new, creative (often technical) ideas. I love solving difficult challenges, but with a purpose.

From Sept 2012 - Sept 2013 I was **vice-chairman** of Student Association Liber Amsterdam, responsible for organisation of activities for 100 members.