

Martijn F. W. van der Veen

PERSONAL

Born: August 1989

Amsterdam (Dutch nationality)

Residence: Vancouver, Canada

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Website: <https://turiphro.nl>

TL;DR:

BSc artificial intelligence, MSc computer vision & graphics

startup founder & CTO (4yrs), Amazon (2yrs+); total 6yrs+ industry experience

PROFESSIONAL EXPERIENCE

Software Development Engineer

Amazon, Vancouver, Canada

March 2017 - Present

Alexa Smart Home SLU (February 2018 - Present)

Part of the spoken language understanding (NLU/NLP) team of the Smart Home org, working independently and in close collaboration with Alexa NLU and Alexa AI teams to improve the state-of-the-art in NLP and home assistants. Delivered both deterministic and stochastic models, as well as many tool improvements.

- Designed, built, and released natural language support for half a dozen Alexa features, including Amazon Basics Microwave
- Built and improved NLP software tools for personalisation and contextual features
- Mentored team members and became a certified NLP bar raiser
- Got promoted

Technologies: Python, Spark, EC2/EMR, git, SOA, OpenFST, internal Amazon tools (data science CL, ML experiments, NLP annotations, release & deployment)

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, vakantievervelingen, 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 Plat-

form, 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*), 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, Spark, 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 honours)

September 2008 - August 2011

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

University of Technology Delft, Delft, The Netherlands

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

September 2009 - August 2011

HOBBIES AND INTERESTS

I enjoy side-projects which combine creativity, electronics and software. I like trying out new technologies and stay up to date with the ML/CV literature. If you can't reach me, I'm probably on a citytrip.

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