

## Martijn F. W. van der Veen

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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.