

Luuk Willemsen

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twinone.xyz

github.com/twinone

Experience

- Oct 2017 **Backend engineer**, *Fyusion, Inc*, San Francisco, CA
present
 - Improving and maintaining scalable backend systems in Go
 - Designed a custom binary format with 46% better performance than general purpose compression

Aug 2017 **Mobile & backend engineer**, *Bosch*, Switzerland
Oct 2017
 - Working on the connected car project of the Bosch IoT Lab
 - Collecting, processing and sending in-car data and analytics on Android phones

Education

- 2014 - 2019 **B.S. Computer Engineering**, *UPC BarcelonaTech*, Barcelona, Spain
Specializing in Computing (Theory of Computation, Algorithms, Compilers, Artificial Intelligence)

Projects

- 2015 - 2017 **Universal TV Remote - 2M installs**
 - Developed Android remote control app using the phone's built-in IR-blaster
 - Reverse engineered IR codes for tv and air conditioner signals of less well-known brands

2015 - 2017 **Intruder Selfie - 1M installs**
 - Developed Android app that takes a picture when somebody fails to unlock your device

Open-source

- 2016 - 2017 **Rubik Robot**
 - Self designed and 3D-printed Rubik's Cube robot solver with over 40 parts
 - Iterated over 20+ designs and built solver using clustering and CV algorithms

2017 **logsolve**
 - Logic game (sudoku-like) solver using computer vision and constraint programming
 - Solves games on a phone using a capacitive pen attached to a 3D printer

2016 **Rubik Web**
 - Built an interactive Rubik's Cube solver for the web
 - Using Three.js for rendering and custom algorithms for solving the cube

Awards

- 2017 **Bloomberg prize** - CopenHacks (*Denmark*)
2017 **Bosch prize** - StartHack (*Switzerland*)
2016 **Microsoft prize** - Junction (*Finland*)
2015 **1st prize** - HackForGood (*Spain*)

Programming languages & Tools

- Languages *Comfortable*: Go, Java, C, C++, JavaScript, Python. *Familiar*: Haskell, Prolog, Shell
Git Experienced with branches, merges, rebasing, etc
Linux Used Linux as primary OS for years (Debian, Ubuntu)

Skills

- Teaching Member of *Jedi UPC*, a university teaching and projects non-profit
Leadership Founded *RobotsUPC*, a university robotics non-profit
Research Member of *Cosmic Research*, a university space research association
Languages Fluent in English, native in Spanish and Dutch