

Keiland W. Cooper

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EDUCATION

Master's Degree moved to United Kingdom (London)	2015
Master's Degree Christian-Albrechts-University	2004–2012
Master's Degree moved to Germany (Kiel)	2004
Master's Degree High school Tallinna Tõnismäe Reaalkool (with major in Mathematics)	1996–2004
Master's Degree Art school Rakenduskunsti Erakool	1997–2001

EXPERIENCE

Contractor Developer / Designer Hybrid app UI for a cool home automation system (AngularJS/Ionic), Switched to full stack (MongoDB/ExpressJS/AngularJS/Node.js + Ionic), Built a CRM and an inventory system in 8 months (full stack, LAMP), Developed an in-browser QR code PDF generator and QR code scanner (JavaScript), Built and deployed a sitemap with 150 million URLs (Python), Full redesign of CI for Murat Diril, produced full advertisement package (print).	2014–Present
Lead Designer / Web Developer Developed (both frontend and backend) websites/services based on Wordpress/Contao, Built a job board (full stack, LAMP), Designed CI's, posters, flyers, catalogues, business cards etc.	2007–2014
Contractor Designer / Jr. Project Manager / Web Developer Developed an analytics tool and a UI for a project (2000+ users as of Oct.2014).	2012–2014
Internship (Research) Lazer path optimization using pythagorean-hodograph curves in R^4 , Disproved given hypothesis and two of its generalized versions.	2010
Scientific Assistant / Student Tutor / Programmer Proposed an algorithm for real-time matching of filmed objects with their 3D-models, Implemented several real-time pattern recognition and triangulation algorithms, Optimized image-recognition code so that it could be used in real-time video analysis, Implemented several scheduling algorithms and a GUI for their usage (J2EE + Swing), Tutored a lecture in cryptography, corrected students homework, Voluntarily gave a sneak peak into Zero-Knowledge Proofs and PCP Proofs to the students, Also did some boring stuff: wrote TYPO3 modules.	2006–2010

RESEARCH

Extensive Form⁺ : Describing Games Linear Nature (Diploma Thesis, 52 pages) Studied games with betting structures present in Poker. Proposed a new way to describe such structures, a strategy space and a set of equilibria on it. Proved the existence of such equilibria for finite Extensive Form ⁺ games satisfying perfect recall. Submitted in 2011.	2010-2011
Theta modulation Studied games with betting structures present in Poker. Proposed a new way to describe such structures, a strategy space and a set of equilibria on it. Proved the existence of such equilibria for finite Extensive Form ⁺ games satisfying perfect recall. Submitted in 2011.	

GitHub Portfolio – <https://github.com/qutebits/>

Graphical Portfolio – <http://www.coroflot.com/qutepixels/>

Languages of choice	JavaScript, Python, PHP
Stack - big stuff	Node.js/ExpressJS/AngularJS/React/d3.js, Python/PHP, MySQL/MongoDB, Git
Stack - small stuff	js/jQuery, PHP, MySQL, Wordpress/Contao
Teamwork	Git, Linux, Slack/Hipchat, Asana/Pivotal Tracker, Dropbox/Evernote/Trello/Google Docs
Design	Adobe Creative Suite

2004	Participant of International Mathematical Olympiad (IMO04 - Athens, Greece) as a representative of Estonian National Team.
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2001	2. place, PC game character design competition (Etherlords, Nival Interactive, 2001).
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English	Fluently speaking and writing (IELTS 7.5/9.0, GMAT 730/800)
German	Fluently speaking and writing (TestDaF 17/20)
Estonian	Speaking and writing (Kesktase 89/100)
Russian	Native language

YAML to PDF Resume Generator (Python Script) – https://github.com/qutebits/resume_42/

- Generates a small and nice PDF Resume out of YAML data,
- Main script is written in **Python**, translates **YAML** data into **T_EX** using **Jinja** templating engine.
- This whole Resume is generated with it :)

Vkontakte Playlist Downloader (Chrome Extension) – <https://github.com/qutebits/vkpd/>

- Chrome Extension for batch download of audio tracks from social network VKontakte,

PIP (Web Scraper)

- Scrapes 80+ pages of different boards/blogs/listings (HN,Reddit,Gumtree,etc.) that I visit daily,
- Sorts the scraped data and filters according to several criteria,
- Reads the filtered data with a human voice on a single click of a button using a TTS library :)

Etsy Thug (Online Tool) – https://github.com/qutebits/etsy_thug/

- Tool for quick creation of Etsy collections.

Stackin (UI Concept) – <https://github.com/qutebits/stackin/>

- Responsive UI concept for sorted value-assigned text data (like Hacker News posts).

QR codes PDF generator (JavaScript) – https://github.com/QuteBits/qr_pdf_generator

- In-browser QR codes generator which then builds and downloads a PDF with them.

QR codes Scanner (JavaScript) – https://github.com/QuteBits/qr_scanner

- Really easy to install/use,
- Runs purely in the browser (no server needed),
- HTML5 QR codes scanner which uses cameras on your devices to scan QR codes.

My Taste of Ideas (Blog Post)

- 21 personal ideas that appeal to my taste,
- Used **Markdown** for posts, **MathJax** for **T_EX** snippets, **Dropbox** as storage for posts and **GitHub** as storage for images.

Hashtag Adjustor (Instagram Scraper)

- Scrapes all hashtags from 30 last posts of all the accounts that liked your posts,
- Sorts them and shows most used combinations of 1, 2 or 3 hashtags

Accounting Jobs Scraper

- Scrapes for companies in 50 industries by location and generates a CSV with their contact emails,
- Scans 5 largest UK job sites and generates a CSV and a histogram of all the salaries

Google Maps and Meetup.com Scraper

- Scrapes Meetup.com Calendar for the current day,
- Scrapes Google Maps Search results by simulating human behavior in the browser and analyzing screenshots

Executing python code on a smartphone using NFC chips and code hosted on a public fiddle

- Root your smartphone and install a command-line tool or a Linux distro,
- Write python code and save it as text on a public feedle (use hackmd.io or similar)
- save a small bash script that downloads the code from hackmd.io and executes it on an NFC chip,

Browser CCTV Streaming (JavaScript/PHP)

- Allows you to stream any number smartphone/laptop cameras (no install needed),
- Open page A in your smartphone/laptop browser and allow access to the device camera,
- page B shows all current streams from page A

Automatic Diary (JavaScript/PHP)

- Generates a static diary that shows a diary entry and all photos with a similar date from a folder

WHO AM I?

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JavaScript

PHP

SASS/LESS

Bootstrap

Git

LaTeX

