



LIFE / EDUCATION

compiled on: February 16, 2020.

2015	moved to United Kingdom (London)
2004–2012	Christian-Albrechts-University - Kiel, Germany Diplom in Computer Science (with minor in Mathematics). Final grade: 1.95 (best possible: 1.0)
2004	moved to Germany (Kiel)
1996–2004	High school Tallinna Tõnismäe Reaalkool (with major in Mathematics) - Tallinn, Estonia Final grade: 4.89 (best possible: 5.0)
1997–2001	Art school Rakenduskunsti Erakool - Tallinn, Estonia Final grade: 8.17 (best possible: 10.0)

WORK EXPERIENCE

2014–Present	Synthace, Ravelin, nCube, Murat Diril etc. - London, UK Contractor Developer / Designer (JavaScript, Python, PHP) <ul style="list-style-type: none">· 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).
2007–2014	H19 Produktion - Kiel, Germany Lead Designer / Web Developer (JavaScript, Python, PHP) <ul style="list-style-type: none">· 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.
2012–2014	WortBildTon, New Communication - Kiel, Germany Contractor Designer / Jr. Project Manager / Web Developer (JavaScript) <ul style="list-style-type: none">· Developed an analytics tool and a UI for a project (2000+ users as of Oct.2014).
2010	Raytrix - Kiel, Germany Internship (Research) <ul style="list-style-type: none">· Lazer path optimization using pythagorean-hodograph curves in R^4,· Disproved given hypothesis and two of its generalized versions.
2006–2010	Christian-Albrechts-University - Kiel, Germany Scientific Assistant / Student Tutor / Programmer (C++, Java) <ul style="list-style-type: none">· 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.

RESEARCH EXPERIENCE

Field	Game Theory
Title	Extensive Form ⁺ : Describing Games Linear Nature (Diploma Thesis, 52 pages)
PDF (in English)	https://github.com/qutebits/final_thesis
Supervisor	Prof. Dr. Thomas Wilke, chair for theoretical informatics, University of Kiel.
Description	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.
Final grade:	1.0 (best possible: 1.0)

PORTFOLIO

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

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

TOOLS

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

ACHIEVEMENTS

2004	Participant of International Mathematical Olympiad (IMO04 - Athens, Greece) as a representative of Estonian National Team.
2001	2. place, PC game character design competition (Etherlords, Nival Interactive, 2001).

HUMAN LANGUAGES

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

PERSONAL PROJECTS

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 $\text{T}_{\text{E}}\text{X}$ 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