



# MATEUSZ SZCZEPAŃSKI

I am a young math and science enthusiast. I'm in my 5 year of applied mathematics studies, and my diploma thesis is about quantum computing. I deal with software testing on a daily basis. Choosing this career option allowed me to become acquainted with IT infrastructure and the sector during my education. I am a highly positive, flexible, and outgoing individual who enjoys working with others. I excel at both technical work and interpersonal relationships, making me a valuable member of any team/project. I enjoy learning new things and facing new challenges. I am interested in expanding my horizons and exploring fresh technology. My mathematical and analytical mindset has repeatedly demonstrated to me that I am capable of doing anything and that anything is achievable if we invest time and effort.

## CURRENT EMPLOYMENT

### QA Software Engineer in Consult Red (07.2021 - 04.2023)

- **Set Top Boxes**
- **Agile Approach** (with Kanban elements, experience with Jira)
- **Manual/Automated Testing in Python/Bash**
- **In-dev testing** in connectivity team (IP Networks, Embedded Systems, Wi-Fi, Remote Control, Access Points)

### CPE Deployment Engineer (04.2023 - present)

- **Cable Modems**
- **Communication with many clients to handle engineering and deployment process'**
- **Engineer in Scrum Master role**
- **Socializing and integrating workmates** (Parties and events)
- **Organizing and moderating trainings** (Git, Robot, Kibana)
- **Newcomers trainings**

## EXPERIENCE AND PROJECTS

### Math related Projects

In **R**: Hunting Model ([tinyurl.com/46wpjuzu](https://tinyurl.com/46wpjuzu)), Heat Equation in 2D ([tinyurl.com/2pmeb78k](https://tinyurl.com/2pmeb78k)), Turing's Instability in Brusselator Model ([tinyurl.com/3296vpjxj](https://tinyurl.com/3296vpjxj))

In **Python**: Testing Pseudo Random Number Generators ([tinyurl.com/2wvvrjmy](https://tinyurl.com/2wvvrjmy)), Estimating Options using Monte Carlo Methods with a variation reduction ([tinyurl.com/bdze9ub9](https://tinyurl.com/bdze9ub9)), Language simulation using Markov Chains ([tinyurl.com/4h2yxjyk](https://tinyurl.com/4h2yxjyk)),

### Python Main Projects

- Airport Database Application with simple GUI ([tinyurl.com/3wmmxcx9](https://tinyurl.com/3wmmxcx9))
- Complex simulation of pandemic (strongly focused on **OOP**) ([tinyurl.com/298344ks](https://tinyurl.com/298344ks))
- Chess King Random Walk Simulation ([tinyurl.com/bdf7kk3k](https://tinyurl.com/bdf7kk3k))

### Bachelor's thesis (01.2021 - 06.2021)

*Minkowski Spacetime in the Special Theory of Relativity*

### Master's thesis (09.2022 - 07.2023)

*A comparison of Quantum Fourier Transform and Classical Fourier Transform in solving differential equations (working title)*

## CLAUSE

I agree to the processing of personal data provided in this document for realising the recruitment process pursuant to the Personal Data Protection Act of 10 May 2018 (Journal of Laws 2018, item 1000) and in agreement with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation).

## PERSONAL DATA

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**GitHub:** [github.com/mszczepanskigit](https://github.com/mszczepanskigit)

## EDUCATION

### University of Wrocław (2018 - present)

**Applied Mathematics** (at the end of Master's degree)

**Master's Thesis (ongoing):** A comparison of Quantum Fourier Transform and Classical Fourier Transform in solving differential equations (*working title*)

**Planned end:** 07.2023

## LANGUAGES and LaTeX

- **English** (Upper-Intermediate B2+)
- **Python** (Advanced, I use it everyday for most of my purposes - work, own projects etc.)
- **Bash/Linux** (Everyday work including scripts)
- **R** (Intermediate, did many projects in R but currently working mainly in Python)
- **SQL** (I've worked with SQL on Databases course on studies and build an application using PostgreSQL and Python)
- **Matlab** (Many numerical projects using matlab)
- **LaTeX** (High Advanced)

## COURSES & CERTIFICATS

### Udemy courses (done):

- Data Science in Python/Pandas
- Python, Image processing
- The Complete Quantum Computing Course

### Udemy courses (ongoing/tbd):

- Django
- Machine Learning in Python
- Computer Vision & AI in Python

## ISTQB Certified Tester Foundation Level

id: 93625