

# Jan Scholtyssek

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Phone: +49 174 6322405  
Date of birth: 1989-11-17



## Education

**2020-2026:** Medicine  
University of Heidelberg

**2012-2014:** MSc in Mathematical Modelling & Computing  
Technical University of Denmark  
2013: Exchange: KAIST, South Korea

**2009-2012:** BSc in Mathematics  
BSc in Physics  
University of Copenhagen

**2006-2009:** High School (Studentereksamen)  
Duborg-skolen in Flensburg, Germany

## Skills

### Languages:

Danish, native proficiency  
German, native proficiency  
English, professional proficiency

### Programming:

C#/.NET	SQL	Java/Android
C/C++	MongoDB	R
React.js	Python	Bash, Powershell
HTML/CSS/JavaScript	MATLAB	

### Software-Frameworks:

Hadoop / MapReduce	Nagios
MPI / OpenMP	ROOT (CERN)
Weka	CUDA (GPU-Programmierung)
Tensorflow	
GROMACS (Molecular dynamics simulations)	



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## *Experiences*

### **Paid:**

- 2021:** Coordinator/administration Vaccine Center Heidelberg  
Landsratsamt Rhein-Neckar-Kreis  
15 hours/week
- 2014-2017:** Data Engineer  
Chr. Hansen A/S (Biotechnology, Denmark)  
Responsibilities: Planning and implementation of data infrastructure and user interfaces. Supervision of other software projects. Support of data scientists..
- 2014-2017:** Software Engineer  
PantolInspect A/S (Railroad technology, Denmark)  
2017 Q3+4: Full time project work for IHFood A/S  
Responsibilities: Algorithms for image and sensor data (60%)  
General system development e.g. database, user interface and visualization tools. Languages: C#.NET, SQL, MongoDB (35%)  
Hardware communication (5%)
- 2012-2017:** RFID-interface development  
SPORTI I/S (Sports timing, Denmark)

### **Volunteering:**

- 2015-2020:** First responder  
Danish Red Cross  
Selection of attended events:  
- Roskilde Festival 2017-2019  
- Copenhagen Marathon+Halfmarathon  
- Several soccer games (also international matches)  
- National Corona-hotline of the Danish authorities
- 2010-2020:** Co-organizer of Copenhagen Inline Challenge (2011-2015)  
Children- and adult trainer (2010-2019)  
Management board and committee member  
Vesterbro Inline Skating-Club  
+ Roller Sports Denmark

### **Entrepreneurial:**

- 2006-2007:** Vitrend (Germany)  
Video conversion, production and editing
- 2013-2014:** FTN Developer (Denmark)  
Android game app (Find The Needle)

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## *Profile*

Dear DKFZ teams.

I would like to support your endeavours. I am specialized in mathematical modelling and computing, physics, do programming since I was 12 years old and can work with basic electronic circuits. Through my studies, work and spare time I have gained experience to be able to help with:

- Automation of data processing
- Design and implementation of databases and data models
- Statistical analysis
- Data visualization
- Development of web-, desktop- and mobile applications
- Simulations (especially randomized ones, e.g. Monte Carlo simulations)
- High performance computing applications for super computers (also Nvidia-GPUs)
- Development and training of artificial intelligence/machine learning
- Development of image analysis algorithms
- Hardware interface development (communication with machines, e.g. for data extraction)
- (Analysis and processing of genomic and protein data)\*
- and a lot more :)

I'm studying medicine in my 2nd semester and can currently help for 5 to 20 hours per week, depending on my schedule. If you would like to hear more or are interested in a collaboration (even short ones) please give me a call or write me an email.

I look forward to hearing from you.

Best regards,  
Jan Scholtyssek

\* Bioinformatics is a wide field and I only have experimented with some concepts in my spare time. I have experimented with alignment algorithms, molecular dynamics simulations, input/output of FASTA, PDB and FASTQ files and some nucleotide and amino acid frequency analysis, mostly with application to protein folding and CFTR-protein defects in mind.